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Royal Ontario Museum
Thirty-Sixth Annual Report
July 1985–June 1986



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Royal Ontario Museum

Thirty-Sixth Annual Report

July 1985–June 1986

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Cover: Jade hunchback pendant from Altun Ha, Belize, Early Classic (A.D. 450–550). One of the ROM artifacts in the special exhibition *Maya: Treasures of an Ancient Civilization*.



ISSN 0082-5107
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100 Queen's Park
Toronto, Ontario
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as of 30 June 1986

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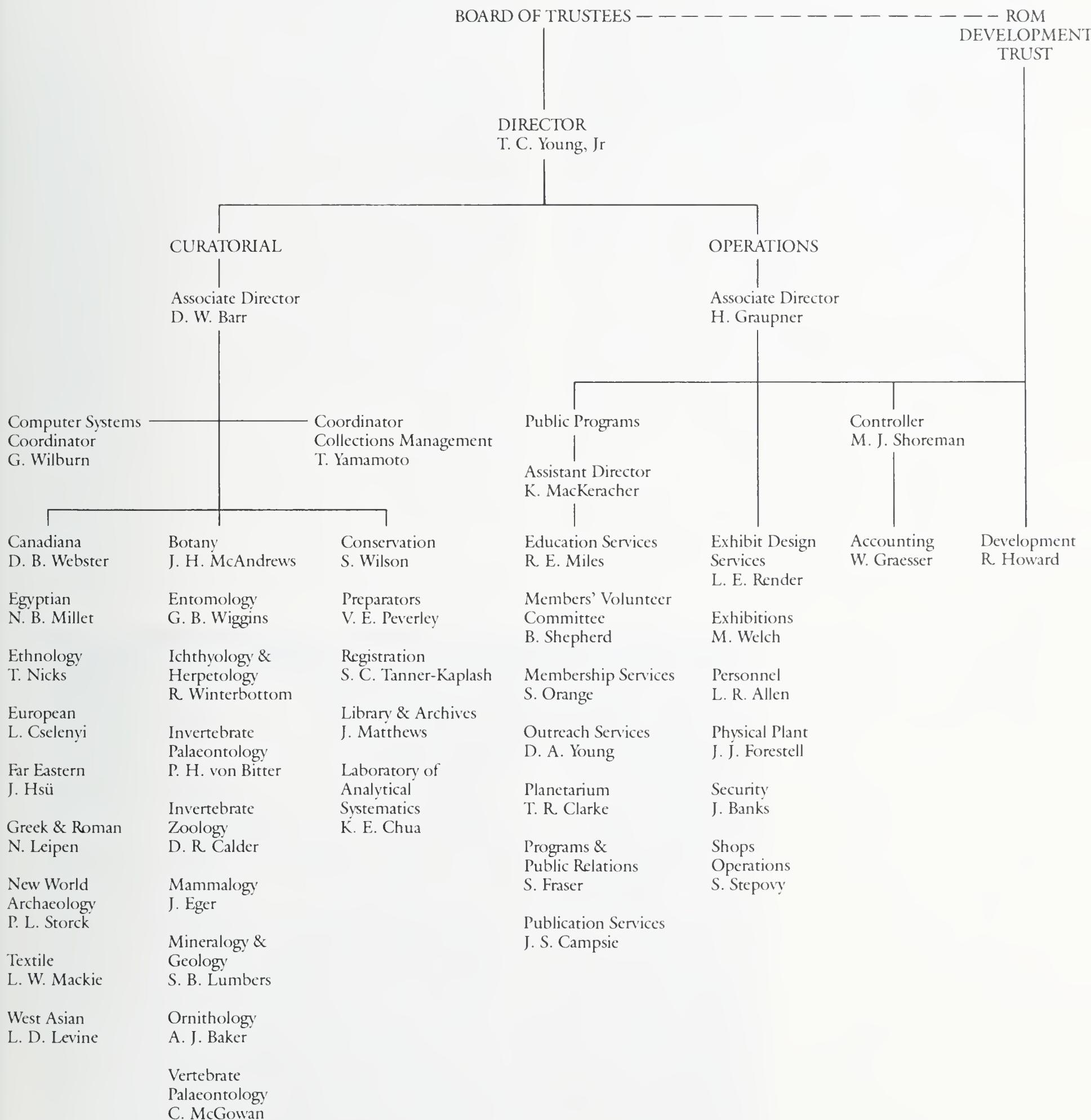
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Museum Organizational Chart

as of 30 June 1986



Report of the Chairman of the Board of Trustees of the Royal Ontario Museum

To His Honour
The Lieutenant Governor-in-Council:

This is the third annual report of my stewardship as Chairman of the Board of Trustees of the Royal Ontario Museum that I have had the privilege of submitting to you. For the first time during my term of office I can say that, while the Royal Ontario Museum continues to have many problems, the past year has been one of considerable accomplishments.

Since September 1985 the executive management of the Museum has been under the able direction of Dr T. Cuyler Young, Jr, who succeeded Dr James Cruise as director. The change of chief executive officer of the ROM meant that the senior management team was a completely new group from that which was in office on 30 June 1983. While the Museum Board of Trustees and the public generally are indebted to the fine public servants holding office at that time, I believe that it has been beneficial for the ROM to have a fresh approach to dealing with the problems that arise from the greatly expanded institution and the need to develop and install its new permanent galleries.

At the beginning of my term of office, the Museum faced three grave problems: dire financial straits, lagging gallery development, and serious deficiencies in staff morale.

The notable financial support received from the Government of Ontario and the generous response of Museum supporters and the general public to our Gallery Development Campaign have placed us in a position where we can now be confident that the campaign will reach its goal. Our financial problems are in the process of being solved, although we will continue to need annual contributions from our supporters.

The Honourable Lily Munro, minister of Citizenship and Culture, dancing the hora with Mr Edwin A. Goodman at the inaugural reception for the Royal Corporate Circle/Royal Terrace Club at the ROM, 11 September 1985.

Monies received from these sources have enabled us to accelerate the gallery installations. This past year we have opened three galleries and next year we will be opening four more. While this is a decided improvement, it is not the result that the trustees and management desire. The Director has appointed a Gallery Development Review Commission, consisting of members of the various areas within the Museum, to examine the gallery installation procedures and to make recommendations for changes. This report was received during the summer and is being acted upon by both management and the Board. We, therefore, expect both an acceleration in the building process and galleries of even higher quality than the very fine galleries that have been opened to date.

In my report of last year I indicated that we might very well face serious labour problems in the late summer or early fall. Unfortunately, that prophecy proved correct. Since I last reported to you, the ROM has had two strikes, which, of course, your Board and management very much regret. These strikes were settled and two-year collective agreements were entered into with three of the four bargaining groups. Unfortunately, serious philosophical differences still exist between management and the ROM Curatorial Association; these differences are receiving continuous attention on both sides in an endeavour to reach a mutually satisfactory solution. Dr Young has dedicated himself, since taking office, to building an atmosphere of mutual understanding throughout the institution. We are, therefore, most hopeful that labour relations will continue to improve during the coming year. I must say, however, that your Board will not at any time abdi-



cate either its statutory or its moral obligation to be responsible for the management of the institution.

I owe it to my hardworking colleagues on the Board to set forth the extent of their activity during the past year. Your Board of Trustees meets regularly every month of the year (other than July), with occasional special meetings. A tremendous amount of the work load, however, is carried by the committees of the Board. These committees, which function under the chairmanship of a Board member, consist of three or four other Board members and a similar number of knowledgeable and dedicated members of the community who have had experience in the various fields that the committees deal with.

In the past year there were eighteen committees or special resource groups operating under the aegis of the Board; these committees held 143 meetings. This will give you some idea of the dedication of the Board members to the Museum. In addition to these formal meetings, there are several hundred informal meetings of two or three Board and management members to discuss specific problems.

I believe that it would be appropriate for me to bring to your attention the very great help that the institution receives from the Members' Volunteer Committee. Their activities are reported elsewhere in the annual report, but I wish to express publicly the appreciation of the Board of Trustees for the support the Museum has received from the MVC during the past year. In the coming year the MVC will initiate a new activity, ROM Reproductions, which is a broad program of manufacture and sale of reproductions of ROM artifacts, which will serve to bring to the

public a wider knowledge of the breadth and beauty of our collections.

With the assistance of certain of the Honorary Trustees, a special committee is planning important changes to the entrance and signage of the institution, which we believe will be both an aesthetic improvement and a source of increased public awareness of the ROM.

With the Gallery Development Campaign expected to be concluded this coming year, your Board is turning its attention to the need to provide funds to maintain our collections and our scientific research and expeditions at a world-class level. The ROM has had a very small endowment, but I hope that by the time this report is made public we will have announced an ambitious program to build an adequate endowment fund to protect the future excellence of the Royal Ontario Museum collections, research, and education programs.

The Board of Trustees wishes to acknowledge with thanks the outstanding efforts and dedication of senior management. Furthermore, notwithstanding differences during the year, the Board publicly acknowledges the service of ROM employees and their loyalty to all that the Royal Ontario Museum stands for.



Edwin A. Goodman
October 1986

Edwin A. Goodman, O.C., Q.C., D.U.
Chairman, Board of Trustees

Report of the Director to the Board of Trustees

The year 1985/1986, my first as director, was eventful. It is difficult to select from all the events those that were of paramount importance and thus worthy of inclusion in this brief year-end report (and in making the choices I shall no doubt display my own prejudices, not necessarily shared by all staff).

Shortly after I became director two important groups of staff members went on strike. The Chairman of the Board of Trustees, Mr Edwin A. Goodman, has already touched on this issue in his report to the Lieutenant Governor-in-Council. Suffice it for me to add here that this unique event in the history of the Museum was a difficult, trying, and sometimes heartbreaking experience for all who were involved, regardless of their responsibilities. I am and will be dedicated to helping create the kind of institution, with the sensitive interrelationships among all staff, in which such legitimate ways of expressing concern as withdrawing services will be perceived as unnecessary. Progress towards this goal in the past year has been uneven, and the future, too, is likely to see backward steps as well as forward strides. Yet the goal can be reached because all within the community see that its attainment is needed and most understand that each of us contains within ourselves part of the power required to bring that kind of peace to our institution.

Throughout the year all levels of staff have contributed to our achievement of considerable progress with the Museum's current primary concern, gallery development. Planning is moving ahead for several new galleries. The completion and opening to the public of the bright, fresh, object-rich new Greek and Etruscan galleries demonstrates solid progress. At year's end two new galleries, one presenting the cultures of Later Imperial China and the other the Astrocentre in the Planetarium, are so close to completion that their opening ceremonies will be landmarks early in the new fiscal year.

In looking backwards and forwards over the whole Gallery Development Project this year, I had the sense that a critical point had been reached—that we are on the threshold of accelerating momentum. For that very reason—that sense of a positive turning point in our progress—it seemed to me that we needed to pause briefly and to take a careful look at how we were planning galleries and how we manage that planning and the construction it dictates. To do just that, I appointed a Gallery Development Review Commission of experts from the staff, who completed their report within ten weeks. I presented that report to you, the Board of Trustees, and among other recommendations you approved the establishment of a temporary senior management position, Associate Director—Gallery Development. I am confident that this centralization of responsibility for and authority over the Gallery Development Project, along with the implementation of other recommendations of the commission, will permit us to improve on the considerable successes of the past as well as to learn how we can do better in the future.

Numerous temporary exhibits, with related programs, punctuated the past year. The two high points of that effort were, of course, the special exhibitions *The Precious Legacy: Judaic Treasures from the Czechoslovak State Collections* and *Maya: Treasures of an Ancient Civilization*. While combined attendance at these two exhibitions approached a quarter of a million, their impact on the community is perhaps best measured by their quality. I am proud to report on behalf of all staff involved that, in the case of both touring exhibitions, we were assured by the organizers that the ROM's presentations were the best and most professional of any venue. Still more important, to judge by individual visitor response, I am certain that most people who saw these exhibitions gained lasting insights into important cultures and a new sensitivity to historic events.



Dr T. Cuyler Young, Jr., opening a crate containing a model during the installation of the exhibition *Maya: Treasures of an Ancient Civilization*.

Almost a quarter of the objects chosen for the Maya exhibition were available because of the ROM archaeological field work in Belize under the direction of Dr David Pendergast. That circumstance highlights the value of the Museum's ongoing program of field archaeology. Important digs were undertaken this year in Ontario, Egypt, the Sudan, and Crete. While this archaeological work often captures the banner headlines, our natural scientists are also to be found working in the field. An outstanding example of their efforts was the expedition to Mexico, led by Dr Chris McGowan, to explore a possible new source for evidence on dinosaurs.

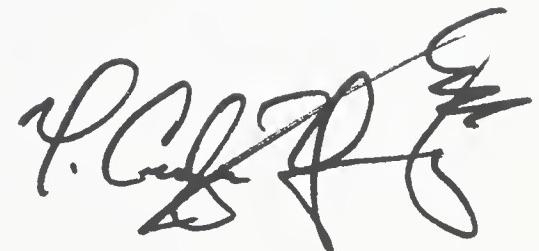
All such efforts are in part made possible by funds in our operating budget, but, as the Board knows well, little could be accomplished in collecting and research were we not assisted by federal government research funding and by private donations such as that made by the *Toronto Sun* for the Mexican expedition. What may not be so well known is the way in which many departments raise other monies to pay for their work. To pick but one example of many from the past year, the total amount of money generated from outside the operating budget for the work of the Department of Ichthyology and Herpetology this year came to almost three hundred thousand dollars. These kinds of funds are found by maintaining a constant lookout for all possible sources of money. As well as from the usual sources, Ichthyology and Herpetology this year found monies in various unemployment works projects at both the federal and provincial levels of government, in special plans for providing summer employment to students, in government grants for space and equipment improvements, and in various organizations interested in research on fish, reptiles, and amphibians. Even United States research funds were tapped. Most departments in the Museum are becoming much cannier about searching out such sources of money, and using them. The trend is not confined to curatorial departments, and the result, of course, is that the whole institution benefits greatly.

Over a million visitors crossed our thresholds this year and several hundred thousand more people were touched by our various Outreach programs. We are clearly doing something right, for these numbers are notable in a world where competition for the visitor is more fearsome than ever before. Many museums are today facing declining attendance as more and more cultural organizations are chasing the same audience. It is not my intention, however, to stress unduly sheer numbers of visitors, even though numbers are an easy way of measuring success in quantifiable terms. We must always be concerned primarily with the quality of the museum visitor's experience. Sometimes fewer people, touched more deeply, bring us closer to our goal of providing this community—and the world—with a scientific and cultural experience that actually affects the way we think and live. Because this is so, I am delighted to report that, in my judgement, we had an excellent and much improved year in terms of the quality of our public efforts. I detect an increased quality in our programming, our membership services, our galleries (witness Later Imperial China), and our special exhibitions. Along with this, steady administrative improvements are evident—in the ROM Café, the Members' Lounge, the Museum Shops, and even in the efforts of Physical Plant to deal with the candy wrappers on the front lawn. Weaknesses abound, but much progress can be observed.

Levels of attendance, the quality of the visitors' experience, and the public's positive response to all they see us do highlight the visible aspects of the institution. Behind those successes lie so much effort and activity that the general public, and often even those who know the Museum rather well, never see. And sometimes those who work beyond the public eye feel that the more obvious functions of the institution receive a disproportionate amount of attention and credit. With this problem in mind, I wish to make an observation not on a success of the year past, but rather on a challenge for the years to come. It is a challenge to which I am convinced by my experience in 1985/1986 the staff

and the Board must rise. In simple terms, it is the need to forge from the several parts of the institution a unified museum that has developed common goals and at the same time encouraged diversity of effort, emphasis, and responsibility. Many and varied efforts will be needed to reach this goal. One such effort began this year with senior management's decision to move ahead with the development of a Long Range Plan for the Museum. A good beginning was made along these lines when we drafted a Mission Statement. Mr Michael Shoreman, our new controller (whose appointment is a notable event of the year), then began the task of leading individual departments in their efforts to help develop the overall plan. Progress on all this, however, has been arrested by the press of more immediate demands on staff time. The Long Range Plan nevertheless remains an important initiative of the year just ended, and must receive the priority it deserves in the years to come.

I close this report with thanks for support and encouragement over the past year to three important groups in the Museum community. You, the Board of Trustees, have provided wise counsel and much guidance. The volunteers who help in so many ways, especially the Members' Volunteer Committee, have been more than kind to a novice director. And the staff have, as usual, often gone an extra mile for the benefit of all. The result was a fairly good year, even with all our troubles.



T. Cuyler Young, Jr
Director

October 1986

The ROM Galleries Campaign Report

Robert Howard, Head, Development Office

It seems difficult to believe that it was just two short years ago that the Galleries Campaign was first spoken of as a symbol of a new era in development at the ROM. As the campaign nears completion, it is particularly satisfying to note the tremendous support and commitment to the Museum that have ensured the success of the Galleries Campaign and allowed us to proceed with plans for the next stage of development—a refreshing ongoing new era.

Even as the galleries are being built, it is obvious that there are many other areas in the Museum that require support. Whether for sponsorship of an exhibition or a program, or for very important gifts to our collections, or for dollars that will allow us to purchase artifacts or fund expeditions, it is clear that private sector support in many areas is necessary to the fulfilment of the ROM's hope of providing for the people of Ontario, and indeed of Canada, one of the finest museums and educational resources in the world. And it is testimony to the leadership and vision of Mr Edwin A. Goodman, chairman of the board of trustees, that a vital and ambitious program to help ensure the long-term health of the Museum is now to be undertaken.

As the Galleries Campaign progressed and we passed the \$10 million mark on our way to the \$12 million target, one of the most gratifying elements of the past year's effort has been the continued support from Museum members, who have contributed almost \$400 000 in cash and pledges through the mail to the Galleries Campaign. A major factor in this continuing trend of increased membership giving is the "phonathon" so effectively run and attended by our Members' Volunteer Committee in 1985. Mrs Jeune Cartwright and Mrs Bette Shepherd, president of the MVC, were the driving forces in this effort. They, in conjunction with their "phonathon" committee and the one hundred volunteers who staffed the phones, deserve the thanks of all of us. On the subject of membership, our thanks are due also to Mrs Stephanie Orange, former head, Membership Services, for her fine endeavours which were so valuable to the Museum.

While much of the success of the Galleries Campaign is certainly attributable to the work of volunteers and Museum staff in the areas of major and general corporations, special names, and foundations, it has always been the hope of our campaign chairman, Mr Wilfred Posluns, that the campaign would enable the Museum to attract a new and broader base of donor support. On this subject, as the campaign nears completion and as plans are already under way for the next step in our development, we are pleased to report that RUN for the ROM has continued to grow both as a fund-raising event and as a means of making a larger cross-section of our community aware of the needs of the Museum.

RUN for the ROM continued to add substantial amounts to

our totals in the past year, and thanks are due to all the staff and many volunteers in the Museum who make this event possible. It is a unique event in the Museum world, and we hope that Mr Ronald Miles, head of Education Services, is as proud of his creation as we are grateful for his continued leading role.

A particularly positive aspect of RUN for the ROM is the fact that it is the Museum staff, and often families and friends, who make it so successful. An organizing committee consisting of Dr David Barr, associate director—curatorial; Ms Bev Dywan, Exhibit Design Services; Mrs Bonnie Gibson, MVC; Mr Edwin A. Goodman, chairman of the board of trustees; Mr Alan Holllett, Egyptian Department; Mr John Robertson, assistant to the director; Mr Michael Shoreman, controller; Mrs Joan Thompson, deputy chairman of the board; Dr T. Cuyler Young, Jr, director, plan and direct the event. Literally hundreds of Museum staff perform functions ranging from master of ceremonies to hot-dog server to tent-builder to make this event truly special.

No report on development at the Museum would be complete without a very heartfelt thanks to the countless staff in all departments whose ideas, insights, and help make it possible for our efforts to proceed.

Since my arrival at the Museum two years ago I have learned a great deal about the many ways in which the ROM serves its many publics, but what is more important, I have come to have a greater insight into the role of all who serve on the board of trustees and the various board committees. With this insight has come a tremendous sense of appreciation not only for their time and commitment, but for the genuine desire to serve that is so evident in our volunteer leadership.

Individuals like Mr Philip Holtby and Mr Robert Stevens have headed up campaign sections and helped to make them successful components in the total efforts. Other members of committees, such as Mr Paul Bailey, Mr Syd Loftus, Miss Sarah Band, and Mr Don Hartford, to name but a few, have brought not only very valuable insights to our efforts, but, what is equally important, fresh ideas and new perspectives. Yet other board members, in particular Mrs Nicole C. Eaton, have been instrumental in ensuring the success of special activities or initiatives and in helping to plan and carry out many longer-term directions. Mrs Joan Thompson, deputy chairman of the board of trustees, has been helpful in a number of areas, notably in canvassing and planning, which have contributed immensely to our success.

This is only a brief and partial listing of those who are vital to the success of the development programs at the ROM; their efforts are duplicated in many areas of the Museum. We are grateful for the full extent of volunteer help we receive, for which the entire Museum owes heartfelt thanks.

Curatorial and Curatorial Service Departments

David Barr, Associate Director

The first priority for curatorial and curatorial service departments again this year was concentration on planning and building galleries, together with the fundamental task of preparing collections to go on permanent display. Staff maintained basic programs of collections development, teaching, research, and public service as well, and several departments carried out changes to exhibits in the From the Collections Gallery and other temporary exhibition spaces. The Conservation and Preparators departments shouldered especially heavy additional responsibilities in the mounting of two major temporary exhibitions, *The Precious Legacy: Judaic Treasures from the Czechoslovak State Collections* and *Maya: Treasures of an Ancient Civilization*.

An excellent indicator of the diversity and quality of staff activities was the Seventh Annual ROM Research Colloquium, held at the Museum on 26 November 1985. At this all-day session, speakers presented the results of their recent research to their fellow staff members and to the public. Twenty-one papers, presenting newly discovered information on topics ranging from Ordovician trilobites to enamelled spoons and a micro-climate project, were followed in the evening by the annual Vaughan Lecture. Organized through the generosity of Mrs O. D. Vaughan and her late husband, the lecture series featured Dr Chris McGowan of the Department of Vertebrate Palaeontology, who described progress in research on flightless birds and bird ancestors. This research colloquium brings together staff from many of the Museum's disciplines to share the excitement of the search for knowledge and has become not only the intellectual highlight of the season, but a unique window on staff endeav-

vours that ultimately find their expression in gallery exhibits.

In acknowledgement of the substantial responsibility it undertakes for presenting entertaining educational shows to the public, the McLaughlin Planetarium was transferred this year to the Public Programs stream. In the remaining eighteen curatorial departments, collection quality was improved by new specimens and artifacts acquired through field work and excavation, but again we depended heavily on the generosity of donors for additions to the decorative arts collections.

Mr Tosh Yamamoto, coordinator, Collections Management, and his staff made substantial progress in aiding departments to improve the integrity of their computerized collection data, and the total number of records on-line was increased by over seventy-three thousand. Mr Yamamoto also carried out a thorough study of space for collections storage and coordinated our planning for on-site fumigation as an aspect of collections care.

Mr Gene Wilburn, computer systems coordinator, supervised the completion of our program of automating office functions in curatorial and curatorial service departments and continued to assist staff with data capture and manipulation solutions. He organized a major study of ways in which the Museum's central computer could be used more effectively to handle several critical functions in addition to the financial accounts.

The long-range staffing study for curatorial departments, begun last year, was refined and completed. The Museum now has a set of objective methods for assessing future staff needs in curatorial departments, a system that can be updated annually to accommodate continually changing conditions.

CANADIANA DEPARTMENT

Donald B. Webster, Curator in Charge

EXHIBITIONS *I Took His Likeness: The Paintings of Paul Kane*, organized by Mrs Honor de Pencier, curatorial assistant, and Mr Kenneth Lister, curatorial assistant in the Department of Ethnology, opened in the Sigmund Samuel Canadiana South Gallery on 20 April 1985 and closed on 27 April 1986. *Canada's Handwoven Heritage*, organized by Ms Adrienne Hood, curatorial fellow in the Textile Department, followed on 24 May and will run through 11 January 1987. *Canadian Portrait Gallery*, composed by Mrs Mary Allodi, associate curator, was opened on level 1B of the terrace galleries, in the area adjoining the Canadiana Gallery.

ACQUISITIONS The department accepted a total of 237 gifts from thirty-two donors. Noteworthy objects were a portrait of Samuel Peters Jarvis II, 1794, from Samuel Peters Jarvis VI; a substantial collection of ceramics with transfer-printed Canadian scenes, from Mrs M. Joan Thompson; and numerous pieces of silver, pewter, and Quebec woodenware, from Mrs John E. Langdon. Miss Diana E. Hunt made a cash gift to finance acquisitions by purchase. During the year the department purchased twenty-eight objects and pictures.

LOANS Objects and pictures for exhibitions were lent to twelve institutions, including the London Regional Art Gallery; the Musée du Québec; the National Museum of Man, Ottawa; the Corcoran Gallery of Art, Washington, D.C.; and the Office of the Premier of Ontario.

PUBLIC SERVICE The department responded by telephone, by letter, or in person to some twenty-one hundred requests for identification or other information. Three hundred and forty-three photographs and transparencies were provided for publication, research, or lectures. During its first year with part-time staff, the new Sigmund Samuel Canadiana Gallery library served 106 outside researchers.

TEACHING AND LECTURING Mr Donald B. Webster, with Mrs de Pencier and Miss Janet Holmes, curatorial assistant, conducted a University of Toronto graduate course, "North American Decorative Arts" (1445Y). He also lectured to the Oakville Historical Society, the London Centennial Museum, and the Long Branch Historical Society.

RESEARCH Projects included Mrs Allodi's continuing work on 19th-century Canadian portraits and portraitists and Miss Holmes's study of the early Canadian glass industry. Mrs Allodi, with coauthor Miss Rosemarie Tovell of the National Gallery of Canada, completed a manuscript on engraver James Smillie. Mrs de Pencier began preparation of a catalogue for a 1987 exhibition of the watercolours of George Russell Dartnell, and Miss Holmes of a catalogue for a 1987 Canadian glass exhibition. Recording and photography were completed for Mr Webster's French Canadian collection catalogue; the text is now in preparation.

COMMITTEE SERVICE Mr Webster chaired the Rotunda Working Group, and Mrs Allodi was a member of the search committee for a new director.

EGYPTIAN DEPARTMENT

N. B. Millet, Curator in Charge

The year's activities in the Egyptian Department were focused, as they were last year, on gallery development, research, and field work.

GALLERY DEVELOPMENT Both curatorial and non-curatorial staff were heavily involved with planning for the new galleries. The selection of objects for display was completed and Ms Roberta Shaw, curatorial assistant, spent many hours coding the artifacts according to the format most suitable to gallery planning. Mr Alan Hollett, technician, devoted his efforts to completing the necessary photographic records.

RESEARCH AND FIELD WORK Much of the research work undertaken this year was directly or indirectly related to gallery planning, particularly where previously undisplayed objects were concerned. Many hundreds of hours were also spent on the study of artifacts used in the old galleries.

With the help of research grants from the Social Sciences and Humanities Research Council of Canada, the two field projects of the department continued uninterrupted. The Dakhleh Oasis Project, a joint venture of the Society for the Study of Egyptian Antiquities and the Royal Ontario Museum, completed its survey in the oasis and began excavating a temple at 'Ein Birbiyah. The temple is preserved, we believe, almost in its entirety, and the inscriptions found on the gate indicate that it was dedicated by Augustus Caesar. Excavations are directed by Mr Anthony J. Mills, research associate in the department, which is also represented by Mr Hollett. The latter participated as well in the Dongola Reach Project directed by Dr Krzysztof Grzymski, assistant curator. During the season, survey work was completed and small trial excavations were undertaken; they resulted in the discovery of a fully equipped 4th-century burial. Dr N. B. Millet made an inspection tour of several Upper Egyptian sites that may be selected for future excavations.

TEACHING, LECTURING, AND PUBLIC SERVICE Dr Millet and Dr Grzymski taught both undergraduate and graduate courses at the University of Toronto. In addition, scholarly and popular lectures were given to wider audiences. Dr Millet spoke to audiences in Calgary and Toronto; Dr Grzymski presented a paper at the Egyptological Congress in Munich and gave a popular lecture in Toronto. The department received visitors from Canada and abroad, identified many objects for the public, and led several tours through its reserve collections. The curators were interviewed on many occasions by radio, television, and press reporters.

ACQUISITIONS AND LOANS Because of budget constraints, this was a lean year for the department as far as acquisitions were concerned, but loans continued, notably to an exhibition, *Food*, organized by the Ontario Science Centre. The departmental library was enriched by books donated by Miss Winifred Needler, curator emeritus.

PUBLICATIONS Although no major monograph was published this year, articles by Dr Millet, Mr Mills, and Dr Grzymski appeared in scholarly and popular periodicals.

APPOINTMENTS Dr Millet continued to serve on the governing boards of the American Research Center in Egypt, the Canadian Federation for the Humanities, the Canadian Mediterranean Institute, the Canadian Institute in Egypt, and the Society for the Study of Egyptian Antiquities, of which he is president. He also continued as a member of the Museum Com-

mittee for the Academy of Medicine, Toronto, and as a Visitor to the Egyptian Department of the Museum of Fine Arts, Boston. In November Mrs Annette Gromow, departmental assistant, was elected secretary-treasurer of the Society for the Study of Egyptian Antiquities and was appointed secretary to the Board of Trustees of the Canadian Institute in Egypt.

DEPARTMENT OF ETHNOLOGY

Trudy Nicks, Associate Curator in Charge

ACQUISITIONS Acquisitions were added to the North and South American, African, and Oceanian collections. Of the 172 artifacts, 145 were donations. Particularly significant among the donations is a painting by Ojibwa artist Norval Morrisseau titled *Thunderbird Woman*, which has been recognized by the Canadian Cultural Property Export Review Board as possessing national importance. The most significant purchase during the year was a rare Eastern Woodlands pouch dated c. 1800. This purchase was assisted by a grant from the Government of Canada under the terms of the Canadian Cultural Property Export and Import Act.



Eastern Woodlands porcupine-quill embroidered pouch, c. 1800. Purchased with the assistance of a Cultural Property grant provided by the Government of Canada under the terms of the Canadian Cultural Property Export and Import Act.

GALLERY DEVELOPMENT AND EXHIBITIONS The first phase of planning for the permanent ethnology galleries was completed and approved. Assistance was provided towards the development of in-house temporary exhibits.

RESEARCH AND FIELD WORK Departmental projects included field work among the Tsimshian of the Kitsumkalum Band, British Columbia; archival research related to the ethnohistory of the Cree and métis in western Canada and the Cree-Ojibwa of Northern Ontario; and studies of Ojibwa oral traditions, native Canadian souvenir arts and crafts, the Edmund Morris collection of Plains Indian artifacts, and Central and South American rural markets and legal systems.

COLLECTIONS MANAGEMENT In addition to carrying on the work of collections documentation and maintenance, the

department initiated special projects to catalogue ethnographic photographs and to conduct an inventory and conservation review of artifact collections. These special projects were supported through grants from federal and provincial government programs (Summer Employment Experience Development program, Experience '85). This year priority was also given to building up the files of documentary photographs of the department's collections.

TEACHING AND LECTURING Staff members taught courses at McMaster University and the University of Toronto and supervised graduate thesis work for these institutions, as well as for universities in Frankfurt, Marburg, and Basel. They also presented fifteen research papers at national and international professional conferences and gave numerous public lectures at the ROM and in communities in Ontario and Michigan.

PUBLIC SERVICE AND LOANS The department continued to provide advisory services to the Ontario Ministry of Natural Resources, the Canadian Cultural Property Export and Import Review Board, the Ontario Geographic Names Board, and the Canadian Council for Native Business. Over the course of the past year, 299 people visited the department to conduct research, to have artifacts identified, or to consult with staff members. Three hundred and twenty-one photographs of artifacts and paintings from the department's collections were supplied in response to 111 orders. Of the total number, 145 were requested for publication purposes. Further ethnographic information was provided to the public in response to the large number of letters of inquiry received throughout the year. Artifacts from the collections were lent to the Ontario Science Centre for its exhibition *Food*.

EUROPEAN DEPARTMENT

Ladislav Cselenyi, Associate Curator in Charge

Gallery planning and artifact selection accelerated in anticipation of the opening of the first half of the European exhibits on the third floor of the northeast wing. These will contain specially designed study areas for arms and armour, costumes and textiles, ceramics, glass and metals, coins and medals, portrait miniatures, evolving lifestyle, Judaica, and current research, as well as space for small rotating exhibitions from the European and Textile departments.

LOANS Loans were made to *Canada Collects the Middle Ages*, an exhibition circulated by the Norman Mackenzie Art Gallery, Regina, and to the *Food* show at the Ontario Science Centre and Glendon Gallery, York University. Among the many loans pending are ones to the Academy of Medicine, Toronto; the General Savings Bank and Fund of Belgium; the Art Gallery of Ontario; and the International Exhibitions Foundation, Washington, D.C.

ACQUISITIONS AND COLLECTIONS A rare group of thirteen ceramic stirrup cups in the form of animal and fish heads was donated by Mr Jack Ryrie. Dr Ben Kanee presented sixteen portrait miniatures, which greatly enhance our holdings. Ceramics, glass, and furniture came from Mr Arthur Lang. Mr Clyde Magee gave a Louis XVI chest of drawers. Artifacts and money came from the Estate of Mrs Helen Margaret Langstaff. The Dorothy Silverman bequest financed further acquisitions, including a set of twelve tea bowls and saucers, plus a small punch bowl from the well-publicized "Nanking Cargo". These are slated for an English period room c. 1740 in our forthcoming galleries. Mrs



Fox-head stirrup cup of bone porcelain naturalistically painted in enamels, with the gold collar inscribed "Tally Ho". English, probably Derby, c. 1800–1830. From a group of thirteen examples presented to the European Department by Mr Jack Ryrie.

Estelle Morris and Mrs R. H. Shepherd provided funds for a number of significant acquisitions. The disposal of duplicate or unsuitable pieces from our furniture collection is under review; such disposals may enrich other institutions or underwrite the purchase of finer examples.

TEACHING AND LECTURING Mr K. Corey Keeble, associate curator, lectured frequently and led the Members' Volunteer Committee tour of Germany in October. Mr Peter Kaellgren, curatorial fellow, addressed the Fourth International Ceramics Symposium, 20 October; the ARIDO/IIDEX Interior Design Conference, 20 November; and the annual meeting of the Canadian Glass Art Association, 6 April. In the spring term he taught "Studies in English and European Ceramics" (FAH 351S) for the University of Toronto. Mr Brian Musselwhite, curatorial assistant, continued teaching his "Antiques" course three nights a week and provided numerous public lectures and identification clinics.

STAFF Mr Ladislav Cselenyi, who was named curator of musical instruments by the board of trustees, retired after seventeen years of service. Mr Keeble will become associate curator in charge of the department. Dr Howard Collinson, a recent graduate in art history at Yale University, was chosen to curate our important graphics collection, manuscripts, and printed books. The search for a curator of furniture has been temporarily postponed because of budget constraints.

RESEARCH Mr Keeble is studying sculpture and Canadian stained glass. Mr Kaellgren is completing his doctoral dissertation on the evolution of the console table in England 1700 to 1800. Our technicians, Ms Wendy Kritzer and Mrs Torrie Lowther-Munroe, spent considerable time preparing artifacts for the galleries and improving storage. Mrs Cynthia Martin, departmental assistant, successfully coordinated the search for the

new curator. With the help of a new IBM computer/word processor, the department hopes to be able to meet the challenge of opening the first phase of its galleries in 1987.

FAR EASTERN DEPARTMENT

James Hsü, Associate Curator in Charge

KOREAN PROGRAM As part of the department's continuing program initiated two years ago, Korean documentary films were shown in the ROM theatre and an exhibit entitled *Recently Acquired Korean Artifacts* was installed in the From the Collections Gallery. In June Mr Hugh Wylie, curatorial assistant, accompanied a loan of 116 Chinese artifacts to the National Museum of Korea for the opening of its new building; the loan is in exchange for a future long-term loan of Korean artifacts from that museum for display in the ROM's Far Eastern galleries. In June a major gift of 139 items, many of them specially commissioned from Korea's Living National Treasures, was received from the Korean government.

ACQUISITIONS In addition to the Korean gift, seventy gifts in kind to the collections were received from various donors and friends. Donations of money enabled the department to acquire objects from Korea, South Asia, and Japan, and needed books for the library.

EXHIBITIONS A temporary display of objects associated with the historical Jewish community of Kaifeng, Henan, China, and South Asian Buddhist and Hindu sculptural reliefs was installed in the From the Collections Gallery.

LOANS In addition to the major loan to Korea, forty-four objects were lent for exhibitions in Ontario and the United States. Objects were lent internally as well, to Education and Outreach Services.

FIELD WORK Mrs Patty Proctor, curatorial fellow, was resource person for the Members' Volunteer Committee trip to China.

Mr Jae Won Noh, the Korean ambassador (far left), making the official presentation to Dr T. Cuyler Young, Jr, director (second from left), of a Korean Government gift of Korean crafts for a touring exhibition.

She travelled to Korea, Hong Kong, China, and Taiwan, visiting museums and archaeological, architectural, and Buddhist cave temple sites. Mr Wylie visited major sites, museums, and art dealers in Korea and Japan.

RESEARCH As part of the long-term plan for publication of the Chinese ceramics and bronzes, the department began computerization of its collection records, beginning with the Chinese bronze weapons. Dr James Hsü published three articles. Other staff members continued or completed earlier research and gallery-related activities and research.

TEACHING AND LECTURING Dr Hsü resumed teaching his course "The Written Word in Ancient China" for the Department of East Asian Studies at the University of Toronto. Mrs Elizabeth Hayes, academic assistant, presented an invited paper on Indian art at Carleton University. Members of the department presented a lecture series on Chinese art at the London Regional Art Gallery in the spring, and one on Chinese painting for the Bishop White Committee's fall lecture series.

GALLERY DEVELOPMENT While construction began in the spring on the permanent Song-Qing galleries, planning continued for the east terrace galleries, which will feature earlier Chinese artifacts; opening is scheduled for early 1989. Work on six galleries in the northwest wing was deferred pending institutional review of the entire gallery-development process.

PUBLIC SERVICE During the year the department was host to more than a hundred scholars, government officials, and collectors from fourteen countries. Professor M. Hayashi of Kyoto spent a month studying the Chinese bronzes. Over 140 people brought in objects to be identified, and numerous inquiries were answered by letter and telephone.

STAFF After serving more than eight years as associate director—curatorial, Mrs Barbara Stephen, curator, rejoined the department. She will curate the Southeast Asian collections.

LIBRARY The most significant of the grants and gifts received for the library was the Gloria M. Turner Fund from the Bishop White Committee, to be used to purchase books in Mrs Turner's



memory. Another memorial to Mrs Turner came from the Members' Volunteer Committee, in the form of a Chinese word-processing program, which will facilitate work in the library, and in the department generally. Other important donations were received from individual friends, the Bishop White Committee, the Metropolitan Association for Studies in Far Eastern Art, Kyoto, the International Cultural Society of Korea, and the Japan Foundation.

GREEK AND ROMAN DEPARTMENT

Neda Leipen, Curator in Charge

GALLERY DEVELOPMENT A major achievement was the completion of the new Greek and Etruscan galleries. Last seen by the viewing public at the end of 1979, when the old Museum galleries were closed for renovations, the displays focus on three main areas: the Greek World, Early Italy and Etruria, and prehistoric Bronze Age Europe. The galleries, which occupy about 630 square metres of space, took about three years to complete. The curatorial and technical staff of the department, in close cooperation with Exhibit Design Services and the Conservation Department, spent a large portion of their time, expertise, and energy in preparing and installing the exhibits once the overall planning and construction were finished and the galleries were ready to receive the displays.

ACQUISITIONS AND LOANS The collections were augmented through gifts and purchases. Outstanding among the latter were a pair of Late Roman/Early Byzantine gold earrings and a single gold earring of the Hellenistic period with a Nubian head exquisitely carved in garnet. An important gift of Dr Elie Borowski consisted of five pieces of Greek and Etruscan pottery and two Minoan/Mycenaean terracotta figurines. From Mr R. E. Hindley we received a splendid Roman sestertius, and from Mr J. Kagan and Ms Sally Fried a Greek bronze coin. These gifts make excellent additions to the collections, and we thank the generous donors.

A long-term loan of Greek and Etruscan sculpture and a selec-

tion of other artifacts was gratefully received from Dr Borowski, and the artifacts have been incorporated into the gallery displays. The department lent a group of objects related to the preparation and serving of food to the Ontario Science Centre for its special exhibition *Food*.

RESEARCH AND FIELD WORK Dr John Hayes, curator, spent the 1985 summer season in Cyprus completing work for the Paphos pottery report, and in Greece where he participated in archaeological surveys and work on the Isthmia finds. Mrs Alison Easson, assistant curator, completed her catalogue raisonné of Central and East Gaulish mould-decorated samian pottery in the ROM. She also prepared a draft for a catalogue of Roman Republican coins and contributed notes on ROM coin hoards for publication by the Royal Numismatic Society. Mr Paul Denis, curatorial assistant, continued his research on Etruscan bronze mirrors at the ROM and drafted a catalogue of the Museum's considerable holdings of Roman and Coptic ivory and bone carvings. Some artifacts from the University of Toronto Malcove Collection were studied by the curators and catalogue entries were published in *The Malcove Collection*, edited by S. D. Campbell (1985).

TEACHING AND LECTURING Mrs Easson spoke to the Society for the Study of Egyptian Antiquities on currency in Ptolemaic and Roman Egypt, and lectured to graduate students at the Pontifical Institute of Mediaeval Studies on coins and archaeology. Mr Denis gave a lecture series in the ROM Continuing Education Program entitled "Looking at Greek, Roman, and Etruscan Art", using ROM collections as reference; he also lectured to various school groups. Dr Hayes talked to Members' Volunteer Committee docents on the world of St Paul. Mrs Leipen served on the University of Toronto examining committee (thesis and orals) for M.Phil. candidate D. Clarke and gave numerous talks in the new galleries to Members' Volunteer Committee docents preparing tours.

PUBLIC SERVICE Mrs Leipen served on two search committees (at the University of Toronto and the ROM). The department dealt with numerous requests for information and identification of objects brought in by the public (totalling about 580).



The Sculpture Court in the newly completed galleries The Greeks and the Etruscans ready for the opening in July 1986.

DEPARTMENT OF NEW WORLD ARCHAEOLOGY

Peter L. Storck, Curator in Charge

RESEARCH GRANTS AND FIELD WORK Dr David M. Pendergast, curator, left for Belize in February to conclude a thirteen-year excavation program at the site of Lamanai. Dr Elizabeth Graham, research associate, began her second year of excavation at the site of Negroman-Tipu, also in Belize. Both Dr Pendergast and Dr Graham conducted their field work with the support of grants from the Social Sciences and Humanities Research Council of Canada. In Canada, Dr Mima Kapches, assistant curator, directed field projects in Victoria and Prince Edward counties. Dr Peter L. Storck directed a site survey project on the Bruce Peninsula and undertook a study trip to museums, archaeological sites, and chert outcrops in Illinois, Indiana, and Ohio.

EXHIBITIONS AND GALLERY DEVELOPMENT The outstanding public event of the year for the department was its involvement in the exhibition *Maya: Treasures of an Ancient Civilization*, which was produced and circulated by the Albuquerque Museum. Of the 270 objects in the exhibition, 55 were provided



Limestone monkey skull from a tomb at Caracol, Belize. Maya, c. A.D. 600-700. This is one of the objects contributed by the ROM to the exhibition *Maya: Treasures of an Ancient Civilization*.

by the ROM from the excavations of Dr Pendergast, conducted over a period of twenty-five seasons of field work in Central America. Dr Pendergast and Dr Graham were also involved in the design of the exhibition in the ROM and in the publicity relating to its opening, participating in over sixty interviews for radio, television, and the press.

Miss Peta Daniels, technician, began work on a multi-departmental special exhibition of personal adornments, entitled *Eye of the Beholder*. It is planned for the spring and summer of 1987.

Temporary exhibits in support of the Maya exhibition were installed at the school group entrance and in the Members' Lounge. In addition, the department assisted in the production of two "Inside Out" cases previewing the future Meso/South American prehistory gallery, which is currently being developed. The department was also involved in planning an introductory display to be located outside the new Ontario Prehistory Gallery, which was opened last year.

COLLECTIONS MANAGEMENT Miss Daniels continued the computerizing of the department's collections, assisted by a full-time computer operator hired with funds provided by the Registration Assistance Programme of the National Museums Corporation. The work is concentrated on updating location records and editing existing data.

LOANS External loans of artifacts were made to the George R. Gardiner Museum of Ceramic Art, the Region of Peel Museum, and the Ontario Science Centre.

TEACHING AND SCHOLARLY MEETINGS Drs Graham, Pendergast, and Storck acted as supervisors to M.A. students at Trent University. Dr Storck was appointed to the graduate faculty of the Department of Anthropology at the University of Toronto and taught a course on flintknapping at the Boyd Archaeological Field School. Dr Pendergast lectured at McMaster University.

Dr Graham presented papers at the Maya Ceramic Conference in Washington, D.C., and at a symposium on the nature of

archaeology at the University of Toronto. Dr Storck had a paper read at the annual meeting of the Society for American Archaeology and presented an invited paper at the biennial meeting of the American Quaternary Association.

PUBLIC SERVICE A total of seventeen outside scholars visited the department to examine various parts of the collections for research purposes. Dr Kapches was appointed vice-chairman of the Toronto Historical Board. Dr Storck continued to serve with the Archaeological Committee of the Ontario Heritage Foundation and in March was appointed to the Niagara Escarpment Committee of that agency. He also continued his work with the Hamilton/Scourge Search Committee.

TEXTILE DEPARTMENT

Louise W. Mackie, Curator in Charge

Identifying the goals and planning for four galleries were the priorities of the curatorial staff, recently increased to five in order to research and exhibit the large international collections and interact with the public.

EXHIBITIONS AND RELATED ACTIVITIES The department initiated two exhibitions: *Around the World: Recent Textile and Costume Gifts*, curated by Mrs Mary Holford, assistant curator, and Miss Louise W. Mackie; and *Canada's Handwoven Heritage*, curated by Ms Adrienne Hood, curatorial fellow. The weaving exhibition honoured the extraordinary contributions of the first ROM textile curator, Mrs Dorothy K. Burnham, C.M., research associate. In addition, we celebrated her most recent publication, *Unlike the Lilies: Doukhobor Textile Traditions in Canada*, at a reception given by the Textile Endowment Fund Committee. The committee also sponsored an Early Canadian Costume lecture series, with speakers Mrs Holford, Mrs Jacqueline Beau-doin-Ross of the McCord Museum, and Mrs Pamela Blackstock of Parks Canada. Textile demonstrations related to the exhibits continued on Sundays courtesy of the Toronto Guild of Spinners and Weavers, the Toronto Guild of Stitchery, and Mrs Edith Starink, research associate for lace.

ACQUISITIONS AND COLLECTIONS MANAGEMENT After evaluation of the potential contribution of possible additions to the collections, 276 items were accepted as donations. No purchase funds were available. Specially noteworthy were a collection of Ukrainian textiles from Mr and Mrs I. Welyhorsky, four French woodblock-printed and resist-dyed textiles from Mr and Mrs W. B. Harris, a collection of Acadian textiles from Mrs Tabitha W. Rossetter, a Persian silk carpet from Mrs Beverley Hale, and an 18th-century Indian painted and dyed chintz curtain from the Textile Endowment Fund Committee. One beautiful 18th-century dress that had been on loan was given by the owner, Miss H. W. Perkin. The department was able to acquire five storage cabinets through the generosity of Mrs D. C. Early.

Mrs Judith Cselenyi, technician, oversaw the endless task of improving the department's already good storage space, and Mrs Kris Rosar Cruikshank, technician, continued the editing of the extensive data base of computer catalogue records. Mrs Greta Ferguson, departmental assistant, helped coordinate activities. The department's dedicated volunteer, Miss Patricia Callahan, made more cloth covers for storage.

RESEARCH Miss Mackie continued studying Islamic textiles, took the textile analysis course at the Centre International d'Étude des Textiles Anciens in Lyon, and with Dr Brigitte Schmedding, associate curator, attended a seminar on diagram-



Woman's open robe, English, 1775–1785. The dark blue-green silk brocaded in white, yellow, and rose is probably Dutch, c. 1734. Gift of Miss H. W. Perkin.

ming structures given by M. Sonday at the Cooper-Hewitt Museum, New York. They and Ms Angela Sheng, curatorial fellow, examined the Chinese drawloom in operation in Boston. Dr Schmedding also researched early fibre technology and prepared chinoiserie textiles for a temporary exhibit. Ms Sheng continued to study 13th-century Chinese textile development, as well as Qing dynasty costumes and textiles, in preparation for one article and two exhibits: one in the new Chinese Gallery and one on Chinese export textiles in the temporary Textile Gallery.

Mrs Holford augmented her 18th-century fashion costume manuscript and studied costumes in Sweden. Ms Hood researched Canadian textiles, focusing on Ontario mills and Quebec handweaving, as well as 18th-century Pennsylvania textile manufacture.

The first recipient of the Veronika Gervers Memorial Fellowship, Mrs Judit Szentinirei of Cluj-Napoca, Romania, studied and wrote contextual information on the department's significant Romanian costume collection, assisted by Dr Maria Kresz of Budapest and Miss Veronica Lehotay of Buffalo, New York.

LECTURING AND PUBLIC SERVICE Eleven popular talks were given; two scholarly papers were read; four popular papers and two scholarly papers were published. Miss Mackie served on five ROM standing committees. The department received 260 visitors, identified 126 textiles and costumes for the public, and led 12 tours through its impressive facilities.

WEST ASIAN DEPARTMENT

Louis D. Levine, Curator in Charge

The department underwent a gradual but profound change as members left and were replaced, and as the decision was made to provide individuals with access to the department's own central computer system. With the Xenix system fully operational, the department feels that it has leapt into the 21st century, in terms of its potential for data control. In contrast, the departure of Dr T. Cuyler Young, Jr, to become director, has meant that artifacts from approximately a million years of human history are temporarily lacking curatorial care.

RESEARCH Continuity for the publication of Dr Young's Iran Project excavations has been provided through the contract appointment of Dr Robert C. Henrickson as assistant curator. The new curatorial assistant, Mr Krzysztof Ciuk, brings invaluable expertise in the field of ceramic technology. He has spent the year working with material from Iraq. Contact with students through University of Toronto cross-appointment teaching has helped provide input for various research topics. The department continues to work closely with the University's Royal Inscriptions of Mesopotamia Project. Results already derived from the department's field work and analysis were presented in two independent papers at the International Conference on Archaeology in Athens. The papers involved ceramic analysis from both the Iran Project and the Yemen Project, which has been furnished with a Social Sciences and Humanities Research Council of Canada (SSHRC) grant of \$70 119. With the support of a SSHRC grant in the amount of \$15 783, Dr Lisa Golombek, curator, spent a sabbatical year in the United Kingdom studying the arts of 15th-century Persia.

GALLERY DEVELOPMENT The major gallery work of the year was the continued development of plans for what could be described as "classic ancient Mesopotamia" from approximately 3500 to 500 B.C. Initial design of the Islamic garden was also developed, and the department was responsible for helping modify the *Silk Roads • China Ships* exhibition, which now functions as a temporary exhibition entitled *Caravans and Clipper Ships*.

The department contributed to the planning of an Outreach Services travelling exhibition, based on the scope of the Mediterranean World's Islam Gallery.

ACQUISITIONS Modest purchases were made at auction of Islamic jewellery and of a Persian miniature painting. Two important long-term loans were received: Persian artifacts from the Estate of Mrs T. Cuyler Young, Sr, and a fine selection of Turkish glazed tiles from the collection of Mr and Mrs Gilbert Bagnani.

LOANS Outgoing loans from the department seemed, by chance, to have a strong underlying food-gathering theme. An important collection of hunting tools and a horse of rare design (c. 25 000 B.C.) went to the American Museum of Natural History in New York. A range of artifacts—from one of the earliest known storage pots (c. 6000 B.C.) and a grindstone (c. 7000 B.C.) to an 18th-century Turkish portrait of a sultan's personal food-taster—went to the Ontario Science Centre's *Food* exhibition. And a 19th-century plough from Jerusalem was sent for display in a London Historical Museums exhibition on early agriculture in Ontario.

DEPARTMENT OF BOTANY

J. H. McAndrews, Curator in Charge

In March 1986 we welcomed Dr Timothy Dickinson as assistant curator in charge of the vascular plant collection. Room renovations were done to accommodate him and his research on systematics.

FIELD WORK Ms Deborah Metsger, curatorial assistant, and two summer assistants conducted a botanical survey along the Bloodvein River in Woodland Caribou Provincial Park, Ontario. About 1300 specimens were collected and 362 taxa were identified, several of which are rare in the province. Dr J. H. McAndrews collected three lake-sediment cores. Radiocarbon dating and pollen analysis of the cores showed that the vegetation assumed its modern aspect six thousand years ago. This work was funded by the Parks Canada Heritage River Program, with logistical support from the Ontario Ministry of Natural Resources. Results were used by the ministry for the nomination of the Bloodvein River as a heritage river and towards the development of a management plan for Woodland Caribou Provincial Park. Dr Dickinson collected hawthorns in the southeastern United States, both herbarium specimens and liquid-preserved flowers for cytological, embryological, and morphometric studies.

RESEARCH The staff published seven scientific and two popular papers, as well as serving as referees for fifteen manuscripts.

TEACHING AND LECTURING Dr McAndrews taught a course at the University of Toronto, supervised one graduate student, and provided substantial assistance to three. He also served on R. D. Fecteau's M.Sc. thesis examination committee. Dr J.



Miss Georgia Guenther, artist with Exhibit Design Services, adjusting a model of a giant pine pollen grain in the Botany Gallery.

Krug, research fellow, taught the course "Edible and Poisonous Mushrooms" for the University of Toronto School of Continuing Studies. Ms F. McCarthy, research assistant, Dr McAndrews, and Ms Metsger attended meetings of the Geological Association of Canada, the Canadian Botanical Association, and the American Quaternary Association respectively, presenting posters at each meeting. Dr Dickinson gave an invited lecture at Queen's University. Dr Krug attended the International Association for Lichenology Field Symposium in South Africa.

ACQUISITIONS AND LOANS In addition to the yields of its own collecting, the department received 933 vascular plant specimens through gifts and exchange. Mr and Mrs Ott Devitt donated their collection of 40 framed colour photos of ferns and 700 colour transparencies of vascular plants. In all, 729 specimens were mounted and accessioned. Study loans were sent to various institutions in Canada, the United States, and the German Democratic Republic. The Cryptogamic Herbarium added 1495 specimens. Funds provided by the office of the associate director—curatorial made possible the opportune purchase of fifteen herbarium cases.

GALLERY DEVELOPMENT The final seven giant pollen-grain models were completed and hung in the temporary Botany Gallery.

PUBLIC SERVICE Plant and pollen identifications and interpretations were made for the public and various institutions. The department, mainly Ms Metsger, continued to identify plants over the telephone for the Poison Control Centre. The first of a four-part series, "Plant Alert", focusing on identification of common poisonous plants, appeared in *Rotunda*. Ms Metsger gave a presentation to the ROM Seniors' group on the Department of Botany's research and collections. She and Dr McAndrews conducted a "Wildflower Walk" as part of the ROM's Continuing Education program. Dr McAndrews spoke to East York Council on the scientific importance of fossil plants from the Toronto Brick Site. Staff gave several talks to naturalist groups.

AWARDS Dr Dickinson received a Michaux Research Grant in silviculture from the American Philosophical Society for a study of cytotype and morphotype evolution in hawthorns.

DEPARTMENT OF ENTOMOLOGY

Glenn B. Wiggins, Curator in Charge

STAFF The appointment of Dr D. Christopher Darling as assistant curator ushered in several new initiatives during the past year. Most recently an assistant professor in the Department of Entomology at Oregon State University, Dr Darling completed his Ph.D. work at Cornell University, specializing in the biology and taxonomy of parasitic Hymenoptera (Chalcidoidea). His research involves the department in a field of fundamental importance to the biological control of harmful insects; work in support of this research program will enhance the department's collections of terrestrial insects. Ms Susan Pasch returned to the permanent staff as departmental assistant, replacing Shakilah Mehrunnisa; Ms Pasch had already served as our department secretary from 1975 to 1983.

FIELD WORK AND COLLECTIONS Recognizing that forest habitats are disappearing at an unprecedented rate, especially in the tropics, the department has undertaken a computer-based system for management of bulk field collections of insects from these



Dr D. Christopher Darling, assistant curator, in Pinery Provincial Park, Ontario, with a Malaise trap for collecting flying insects.

areas. Recent acquisitions include samples from montane rainforest in Costa Rica and the Western Ghats of India, and from lowland rainforest in Brazil. Collections of North American insects were augmented substantially this year, through field expeditions to the western United States, several collecting trips in the east, and a survey of Hymenoptera in Pinery Provincial Park, Ontario. Significant donations were received as well. Acquisition of a critical point drier now enables the department to prepare superior study specimens of small insects.

GALLERY DEVELOPMENT AND EXHIBITS Planning for the new gallery continued to be the main activity of the department. In accordance with a decision to increase the number of exhibits of living specimens, cultures of several exotic and native species were initiated, most notably giant Australian walkingsticks. Experimentation continued with freeze-drying techniques to enhance the lifelike quality of exhibits. The department's contribution to the ROM's public program during the March school break attracted a high level of interest.

RESEARCH Dr Darling received a Natural Sciences and Engineering Research Council (NSERC) operating grant in support of his research, and completed and had accepted for publication two papers on Chalcidoidea. In Dr Wiggins's program on Trichoptera, also supported by an NSERC operating grant, four studies were concluded and submitted for publication; Ms Patricia W. Scheffer, curatorial assistant, was the senior author for two published papers on the important genus *Hydropsyche*, and work continued on the *Annotated Checklist of Nearctic Trichoptera*.

TEACHING AND LECTURING Dr Darling was cross-appointed as assistant professor in the Department of Zoology of the University of Toronto and participated in a new course, "Phylogenetic Systematics". He was also an invited participant in a workshop on uses of the PAUP computer program in systematic analysis at the National Museum of Natural History, Washington, D.C. Dr Wiggins supervised the work of three graduate students and was an external examiner for a Ph.D. thesis from the University of Adelaide. He continued to serve as coordinator for the Laboratory of Analytical Systematics and was reappointed to the Scientific Committee of the Biological Survey of Canada (Terrestrial Arthropods). He presented an invited paper in a symposium, "The Role of Systematics in Biology", at the annual meeting of the Canadian Society of Zoologists.

LOANS AND PUBLIC SERVICE The steady flow of loans from the collection to other research workers continued. A substantial increase is evident in the involvement of the department in public education about insects: radio and television interviews, contacts by press and radio, and requests for information from various levels of government, business, and private persons. Several tours of the department and invited lectures to outside groups were given.

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

Richard Winterbottom, Curator in Charge

RESEARCH Subventions totalling almost \$400 000 enabled the department to make considerable progress in its many research projects this year, as well as to acquire assistance for the multitude of collections management jobs. Dr Richard Winterbottom received funds from the Natural Sciences and Engineering Research Council (NSERC) to continue research on the anatomy, phylogeny, and biogeography of perciform fishes. Dr Edwin J. Crossman, curator, received several grants: one from Supply and Services Canada to produce a computer literature file and an annotated bibliography of the northern pike, *Esox lucius*; one from the Ontario Ministry of Natural Resources to prepare and compile the ROM's Ontario fish distribution records; and one from the Ontario Renewable Resources Research Granting Program for research on the reproductive modes in large predatory fishes. Dr Robert W. Murphy, assistant curator, obtained an NSERC grant for research on the evolution of desert reptiles and a renewal of his United States National Institutes of Health grant for electrophoretic investigation of the phylogenetic relationships of rattlesnakes. In addition, the department benefited from two Canada Works (Section 38) grants and the assistance of several people through the Futures Program; these grants enabled us to transfer much of the old hand-catalogued data to the computer file and to tackle other collections management jobs. This department has been exceptionally blessed in having the services of an outstanding group of volunteers who continue to provide conscientious work and good company. It is impossible to put a dollar value on their services.

GALLERY DEVELOPMENT Curatorial staff devoted a great deal of their time to developing the new ichthyology and herpetology galleries. The schedule of the Herpetology Gallery was advanced through a collecting trip to Alice Springs, Australia, by Dr Murphy and Mr Ross MacCulloch, curatorial assistant, accompanied by several members of the Exhibit Design Services staff. Sufficient material was collected to fill the planned walk-through "surroundarama" of the Australian arid zone. Further rapid progress resulted from a subsequent consulting visit to the ROM by Mr Michael Gillam of Alice Springs. Dr Winterbottom's reconnaissance trip to the Philippines ensured the cooperation of the Marine Science Institute of Silliman University in Dumaguete for a planned ROM gallery-collecting trip in 1987.

ACQUISITIONS AND LOANS Cooperation among ROM departments was reflected this year in the large number of gifts we received from other science departments. Our research and field associates (particularly Dr J. Bogart and Mr W. Weller) continued to make generous donations to our collections. The Ontario Ministry of Natural Resources also continued to be a significant donor, helping us to expand our collection of Ontario freshwater fish and herp specimens, as well as donating a set of maps of all fourth-level watersheds in Ontario (scale 1:250 000). Many institutions from abroad sent us gifts; noteworthy were specimens for the Indo-Pacific fish collection from the Philippines, Australia, Hawaii, and the Solomon Islands, and specimens for the Sarawak fish collection from researchers in Switzerland and Germany. The international recognition given our collections was attested by the large number of loans requested by other institutions.

FIELD WORK AND TRAVEL The diversity of our reptile collection was significantly expanded this year by some very rare specimens obtained by Dr Murphy and Mr MacCulloch on field trips to Mexico and Australia. Mr MacCulloch also conducted a turtle study at Lake St Clair National Wildlife Area and took part in a ROM Science Cooperative Field Studies trip to Lake Superior Provincial Park. Mr Erling Holm, curatorial assistant, took part in a Science Cooperative Field Studies trip to the Marañón basin of the Amazon River in Peru. Dr Winterbottom obtained several collections of fishes for the Ichthyology Gallery during a reconnaissance trip to the Philippines. Several local field trips were made to obtain specimens and information for a report for the Ontario Ministry of Natural Resources on the distribution of two endangered species, the gravel chub and the redside dace.

Dr Winterbottom presented a paper at the Second International Indo-Pacific Fish Conference in Tokyo (he was also a member of the organizing committee). Both Dr Crossman and Dr Murphy attended the 1986 meeting of the American Society of Ichthyologists and Herpetologists in Victoria, British Columbia; Dr Murphy presented a paper on the phylogenetic analysis of distance data and Dr Crossman was present as a member of the board of governors. Dr Crossman attended the meetings of the Congress of European Ichthyologists in Stockholm and Dr Murphy the conference of the Societas Europaea Herpetologica in Prague.

TEACHING AND LECTURING Dr Crossman and Dr Winterbottom taught the ichthyology course at the University of Toronto, and Dr Winterbottom and Dr Murphy taught a portion of a new course in phylogenetics (cladistics). Each of the three curators had a graduate student under his supervision. Dr Crossman gave talks at the ROM Research Colloquium and the University of Guelph, and to employees of the Wye Marsh Interpretive Centre and Muskies Canada. Dr Winterbottom presented a slide show to the University of Toronto. Dr Murphy lectured at the National Museum of Natural Sciences and the University of Guelph. Mr MacCulloch gave talks to the Ontario Herpetological Society and the Ontario Ministry of the Environment.

OTHER PUBLIC SERVICE The public, government departments, the media, and industry seem to have an endless fascination with cold-blooded vertebrates, as evidenced by the more than two hundred telephone calls we received from them this year. Inquiries ranged from concern about the destruction of Canada's wetlands to whether a crocodile can touch its nose with its tongue. Many people from all these sectors made use of the department for identification of local and exotic specimens.

The curators gave six media interviews, sharks being the popular topic in two of these; they also refereed fifty-one manuscripts for professional journals. Staff attended more than seventy ROM committee meetings; of particular note was Dr Winterbottom's service on the director's Gallery Development Review Commission. Mr Holm acted as a judge at the Canadian Taxidermy Association Competition, and Dr Crossman at the Molson Big Fish Contest. Dr Crossman also continued to serve on the Long Range Planning Committee of the American Society of Ichthyologists and Herpetologists and as a past member of the executive of the Canadian Society of Zoologists. Dr Winterbottom was a member of the editorial board for the journal *Indo-Pacific Fishes* and an assistant editor for the *Canadian Journal of Zoology*. Dr Murphy maintained his position on the Executive Advisory Board of the Ontario Herpetological Society.

DEPARTMENT OF INVERTEBRATE PALAEONTOLOGY

Peter H. von Bitter, Curator in Charge

The planning for the new interdisciplinary Gallery of Invertebrates, in conjunction with the Departments of Entomology and Invertebrate Zoology, accounted for a large portion of the departmental staff's time this year. We look forward to the gallery's opening in 1989. Two curators, Dr Peter H. von Bitter and Dr Desmond Collins, were also immersed in negotiating the first contract of the Royal Ontario Museum Curatorial Association.

ACQUISITIONS Judicious purchases allowed us to obtain display-quality Ontario fossil echinoderms and trilobites and Dominican insects in amber for our new gallery. Donations from departmental friends added to our collections of Ontario fossils.

EXHIBITIONS A display of Ontario eurypterids was presented at the Scarborough Gem and Mineral Show. Ontario trilobites and echinoderms were on show during the March school break, along with a very popular "hands-on" clinic.

LOANS Scientists from North America and Europe borrowed specimens from our collections to aid in their research. In addition, material was lent to several bodies, such as TVOntario for the program "Take a Look".

FIELD WORK The continuing southern Ontario field-work program garnered much information and material. Dr von Bitter attended the ECOS IV Conodont Symposium with related field work in Nottingham, England. Dr von Bitter and Mr David Rudkin, curatorial assistant, also participated in field work in conjunction with the annual meeting of the Geological Association of Canada. In a joint Ontario Ministry of Natural Resources/Royal Ontario Museum project, Dr Collins, Dr Hans Hofmann, research associate, and Mr Bob Davidson of the Provincial Parks and Recreational Areas Branch of the ministry surveyed and collected Proterozoic stromatolites from the famous Schreiber Precambrian fossil locality on the north shore of Lake Superior, Ontario.

RESEARCH Along with the intense work on gallery planning, research and publication continued at a rapid rate (see staff bibliography). Conodonts, trilobites, *Nautilus*, and the Burgess shale were topics of ongoing research in the department.

TEACHING AND LECTURING We were especially busy this year with talks and lectures to diverse groups. Mr Rudkin travelled to points in Ontario for the ROM Speakers' Bureau and led local field trips on behalf of the Continuing Education program. Mrs Janet Waddington, curatorial assistant, gave talks to elementary school classes and groups in the gallery. Dr von Bitter, Dr Collins, and Mr Rudkin presented the results of their research to geological and palaeontological meetings. Dr Collins gave an invited lecture on the Burgess shale to the Macoun Field Club in the National Museum of Natural History in Ottawa. A visit to the ROM and a lecture, "The Extraordinary Animals of Canada's 500-Million-Year-Old Burgess Shale", by Professor Harry B. Whittington, University of Cambridge, was a highlight of the year.

PUBLIC SERVICE Approximately one hundred visitors, sixty-five telephone inquiries, and many letters requesting fossil identifications and locality information were cheerfully handled by Mrs Waddington. Dr Collins and Mr Rudkin provided advice to the Ontario Ministry of Natural Resources with regard to natural history areas. Dr Collins discussed the Burgess shale in radio and newspaper interviews.

AWARDS AND HONOURS Dr von Bitter was promoted to the rank of professor in the Department of Geology, University of Toronto. The Ontario Ministry of Citizenship and Culture awarded \$10 000 to Mrs Waddington and Mr Rudkin to aid in the publication of *Proceedings of the 1985 Workshop on Care and Maintenance of Natural History Collections*.

And last, but not least, the department was happy to participate in the fifth annual Run for the ROM 24 Hour Relay. Dr von Bitter, Dr Collins, Mrs Waddington, and Miss Joan Burke, departmental assistant, joined the ROM Tortoises, Mrs Cynthia Millar-Campbell, technician, the ROM Escargots, and Mr Peter Fenton, technician, and Mr Rudkin contributed to the organization of the myriad tasks involved in getting the teams off and running.



DEPARTMENT OF INVERTEBRATE ZOOLOGY

Dale R. Calder, Associate Curator in Charge

The discipline of invertebrate zoology covers an incredibly varied assemblage of living creatures. Planning a gallery to highlight the diversity of invertebrate animals, as well as their ecologic, economic, and aesthetic importance, was the primary activity in the department this year.

ACQUISITIONS AND COLLECTIONS Several thousand slides of terrestrial, intertidal, deep-sea, and freshwater enchytraeid oligochaetes were donated by Ms Kathryn Coates, curatorial fellow. Over one thousand lots of decapods and other invertebrates were received from Dr G. M. Telford (University of Toronto), including specimens from Singapore and Barbados. Hydroids from Vancouver Island were donated by Dr Anita Brinckmann-Voss, research associate. Hydrozoans from the Beaufort Sea, the Gulf of Mexico, North Carolina, Nova Scotia, and Ohio were acquired from various donors. Collections of shells were received from the family of the late Mrs Myrtle Powell, and from Dr James E. Cruise. Mixed lots of freshwater invertebrates were provided by the Departments of Entomology and Ichthyology and Herpetology.

Collections management tasks were undertaken by Ms Sheila Byers, curatorial assistant, and Ms Maureen Mahler, technician, assisted by summer aides Dan Gadzala, Tim Klassen, and Allison Powell, and volunteer/aide Steve Campbell. Ms Byers reviewed collections management procedures with colleagues at the National Museum of Natural Sciences during a visit to Ottawa.

FIELD WORK AND RESEARCH Ms Coates collected enchytraeid annelids and other invertebrates in the Andes Mountains near Cajamarca during a field trip to Peru. This trip was a cooperative venture of the Departments of Invertebrate Zoology, Entomology, and Ichthyology and Herpetology. During the year, Ms Coates also conducted phylogenetic analyses of oligochaetes, especially enchytraeids. Dr Dale R. Calder continued research on the hydroids of Bermuda, and visited the British Museum (Nat-

Mr Peter Fenton, technician, using a vibrograver to prepare a specimen of the trilobite *Cenurus*.

ural History) to locate important papers in rare books and journals. Dr E. L. Bousfield and Dr Janis Speel, research associates, investigated the systematics of amphipods and echinoderms, respectively. Research was also undertaken on polychaetes by Ms Byers, and on nematocysts of Stauromedusae by Ms Mahler. Published papers are listed in the staff bibliography. Several other manuscripts were accepted for journal publication during the year.

TEACHING AND LECTURING Dr Calder served as course coordinator for the "Phylogenetic Systematics" course at the University of Toronto, and supervised the fourth-year research project of Ms Mahler. Ms Coates presented a paper at a conference on Oligochaeta in Hamburg. Dr Brinckmann-Voss delivered an invited paper on hydromedusae of the Gulf of Naples and vicinity at a workshop on hydrozoans in Ischia, Italy.

GALLERY DEVELOPMENT Preliminary plans for the invertebrate zoology component of the Gallery of Invertebrates were completed and approved.

PUBLIC SERVICE The department welcomed over 150 outside visitors during the year. Demand for identification services continued, particularly for hydroids, molluses, annelids, and crustaceans. Information, reference materials, and loans were provided to scientists, students, professionals, and the general public. Special displays were prepared and exhibited by Ms Byers, Ms Coates, and Barbarann Ruddell, department secretary, for the March school break event "Seeing Things".

AWARDS AND HONOURS Ms Coates received an award from the Kellogg Foundation to attend a workshop on gallery development at the Field Museum of Natural History, and a ROM Science Cooperative Field Studies grant for a collecting trip to Peru. Dr Bousfield received the Outstanding Achievement Award of the Canadian Civil Service from the governor general of Canada.

DEPARTMENT OF MAMMALOGY

Judith Eger, Assistant Curator in Charge

STAFF This was a year of several staff changes in the department. Ms Nancy Grepe was appointed a technician in July, and

Ms Marianne Collins, artist, and Mr Jeffrey Gibson, taxidermy technician, of Exhibit Design Services and Ms Susan Woodward, curatorial assistant, on a collecting trip to Yarrow Creek, Alberta, for the Alpine diorama.

in August Dr J. R. Tamsitt took early retirement and Ms Susan Lavender joined us as department secretary. In April Dr Mark E. Taylor joined the department as associate curator, and in June Mr Burton Lim was appointed a curatorial assistant.

COLLECTIONS AND ACQUISITIONS Work on computerizing the collection proceeded under the direction of Ms Susan Woodward, curatorial assistant, with the help of two students hired under the Summer Employment Experience Development program. Preliminary steps have been taken to convert the existing twenty thousand specimen records and to add new records to CHIN.

A large collection of mammal specimens from Haldimand-Norfolk County was received from Ms Mary Gartshore, who was doing a mammal survey for the World Wildlife Fund for its Carolinian Canada project. Other notable acquisitions included collections of bats from Kenya and Peru. The volume of the collection was greatly enhanced by the addition of a white rhino and a giraffe from the Metropolitan Toronto Zoo.

FIELD WORK This was the final year of collecting in Lake Superior Provincial Park. This has been a joint study with the Ontario Ministry of Natural Resources. Mammals were collected for two North American dioramas: in Maple Creek, Saskatchewan, for a prairie diorama featuring pronghorn antelope and black-tailed prairie dogs and in the Waterton Lakes National Park, Alberta, area for an alpine diorama. This display will focus on a grizzly bear, hoary marmots, Colombian ground squirrels, and pikas. One staff member collected bats in Puerto Rico and the Virgin Islands (U.S.A.) for use in a bat display. After attending a meeting of the American Society of Mammalogists in Madison, staff members carried out some collecting of small mammals in Wisconsin.

LOANS Eight loans to institutions in the United States and Europe were processed.

RESEARCH Dr Judith Eger and Dr Randolph Peterson, curator emeritus, completed a chapter on molossid bats for a three-volume work entitled *The Mammals of South America*. Dr Peterson continued his study of Austro-Asian bats. Dr Taylor is writing a chapter on locomotion and morphology in carnivores for a book entitled *Carnivore Behavior, Ecology and Evolution*. He has also started working on a systematic revision of several African carnivores. A final report on the small mammals of Lake Superior Provincial Park has been submitted to the Ontario Ministry of Natural Resources. Review papers on the white-tailed jack rabbit



and the bushy-tailed mongoose have been submitted for publication.

GALLERY DEVELOPMENT Work continued on the bat cave. The walls of the cave have been coloured and the painting of the sink-hole is in place, giving the cave a realistic appearance. Sites for speakers and lights have been selected. Models of bats, spiders, crickets, tailless whip scorpions, and crabs have been produced; they will help recreate the sights of the cave. A display on bat diversity, to enhance the bat cave, is being planned. The hardwood forest diorama is nearing completion. Work has started on the background painting for the alpine diorama, as well as on the background of a display on North American mammals. An introduction to the Mammal Gallery is being planned for the present temporary gallery space.

PUBLIC SERVICE Staff in the department answered several hundred telephone calls for information on mammals and assisted more than fifty visitors with identification of bone, hair, and ivory, and material for drawing and painting. The Canadian Broadcasting Corporation came to film the preparation of a rhinoceros skeleton for a children's television program. Two staff members participated in a film about disabled people in the workplace. This film was commissioned by the federal government.

AWARDS AND HONOURS Dr Peterson received a Life Membership in the American Society of Mammalogists for his outstanding contributions to the science of mammalogy.

DEPARTMENT OF MINERALOGY AND GEOLOGY

S. B. Lumbers, Curator in Charge

Gallery development was the main activity during the year. Although some of our programs were somewhat curtailed because of the time devoted to the Earth Sciences Gallery, all of them were maintained.

ACQUISITIONS AND COLLECTIONS Both the mineralogical and petrological collections continue to grow because of their importance in earth sciences research and because of the key role that rocks and minerals play in our natural environment and civilization. Thirty-six hundred specimens were catalogued in the petrology collection and 724 new specimens were added, including an extraordinary suite of 35 rocks collected from the floor of the Pacific and Atlantic oceans by Woods Hole Oceanographic Institution. Six hundred and eighteen specimens were registered into the mineral collections, including 73 new species and 66 gems. Most of the new species were acquired through exchanges with other institutions and private individuals. Two large mineral collections were donated: 500 specimens by Mr James W. Peat, and 160 specimens by the late Mr R. C. Staveley. Mr T. E. Schmidt donated 11 specimens of unique meteorite impact material.

Volunteer and part-time paid assistance in cataloguing the collections were provided by Mrs Maurine Charlton, Mrs Molly Gredzelsky, Mrs Frances Lumbers, and Mrs Beverley Mikell.

RESEARCH AND FIELD WORK The department contains several laboratories used by the staff to do research on the collections. In addition, the laboratories are used to identify and analyse a variety of rocks and minerals for other ROM departments, universities, government agencies, industry, and private individuals. Each year numerous earth scientists from Canada and

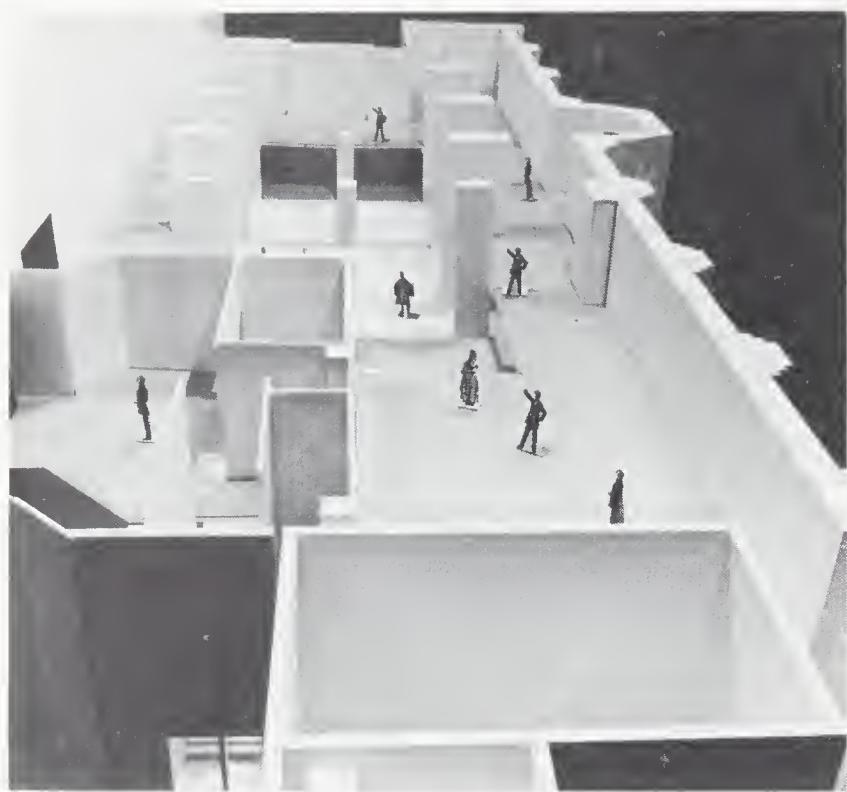
abroad use our collections and research facilities. Six hundred and sixty-three routine X-ray powder diffraction identifications were made in the X-ray diffraction laboratory; 20 minerals were analysed in the thermal analytical laboratory; 2128 isotopic analyses were made in the geochronology laboratory; and over 6000 kg of rock were crushed and processed for isotopic age dating. In our rock preparation laboratory, numerous rock and mineral specimens were cut and polished for display and study purposes, 950 rock thin-sections were made, and over 300 rocks were prepared for chemical analysis. These activities can only be maintained by an efficient and dedicated support staff.

The Jack Satterly Geochronology Laboratory has become a major centre for research by geochronologists the world over. Eighteen visiting scientists and graduate students from Canada and eight other countries used the laboratory facilities to carry out research, to learn the techniques employed, or to seek guidance for establishing similar laboratories in other countries. Much of the work focuses upon Canadian research, and Dr Thomas Krogh, curator; Dr Donald Davis, research fellow; Dr Fernando Corfu, geochronologist for the Ontario Geological Survey; and four postdoctoral fellows carried out numerous geochronological studies in Ontario, Manitoba, Nova Scotia, and Newfoundland. A joint project with NASA was initiated to determine the age of zircons from lunar rocks.

Petrological research, carried out by Dr S. B. Lumbers, Mr Vincent Vertolli, curatorial assistant, geochronology colleagues, and geochemists from the University of Western Ontario, focused on the geochemistry, age, and origin of several igneous rock bodies in the Grenville Province of Ontario and on the effect of metamorphism on certain chemical constituents of igneous and metamorphic rocks. Several hundred descriptions of rocks new to the collections were also completed.

Mineralogical research by curators involved a variety of projects concerning descriptive mineralogy, the development of special techniques in mineralogy, and the paragenesis of serpentine and related minerals. Dr Robert Gait, curator, continued to work on the minerals of the Nanisivik Mine on Baffin Island, on asteriated gem quartz from Sri Lanka, and on the gem collection inventory. Dr Joseph Mandarino, curator, continued to work on the book *The Mineralogy of Mont St-Hilaire*, on the use of the Gladstone-Dale relationship, and on tellurium oxysalts. As chairman of the Commission on New Minerals and Mineral Names of the International Mineralogical Association, Dr Mandarino processed about one hundred new mineral proposals. Mr Darko Sturman, associate curator, worked on the description of six new minerals in collaboration with mineralogists from the United States and Europe. He also continued work on improved methods of studying the optical properties of minerals. Dr Frederick Wicks, curator, continued his studies on the serpentine minerals, using crystal structure modelling, infra-red absorption, and high resolution electron microscopic techniques. His work on the thermoanalysis of minerals contributed to the description of two new minerals. Studies on the talc-carbonate alteration in the Timmins area of Ontario, on the serpentinites of the Manitoba Nickel Belt, and on Colombian emerald deposits continue in collaboration with graduate students. A study of the Cassiar Asbestos Mine has been initiated with Dr D. S. O'Hanley, a postdoctoral fellow. Results of the research done by curators and their associates are reflected in forty entries in the staff bibliography. Curators conducted field work in Ontario, Quebec, Manitoba, British Columbia, Newfoundland, and the United States.

GALLERY DEVELOPMENT Over one-quarter of curatorial time was devoted to gallery development. A draft storyline was completed for the Earth Sciences Gallery to enable the designer, Mr J. J. André of Victoria, British Columbia, to work on a preliminary layout of the entire gallery. The gallery will stress the dynamic aspects of the earth and will feature a large array of exciting and informative rock and mineral displays that illustrate the



View of the 1:20 scale model of the Earth Sciences Gallery.

earth's dynamic forces and processes. A model of the gallery space was completed to facilitate development of the final design and construction of the gallery.

LOANS Thirty loans from the mineral and petrology collections were processed during the year as a result of requests from researchers and institutions both in Canada and abroad. In addition, fifty photographs of minerals and gems were supplied to various individuals.

TEACHING AND LECTURING Dr Krogh, Dr Mandarino, and Dr Walter Tovell, honorary curator, taught courses in conjunction with the Department of Geology, University of Toronto. Drs Krogh, Mandarino, and Wicks supervised postgraduate theses and served as outside examiners for postgraduate theses at various Ontario universities. Departmental staff gave six popular lectures and seminars to a variety of organizations and public gatherings. Curators and research fellows gave fifteen lectures at scientific meetings in Canada and abroad.

PROFESSIONAL AND PUBLIC SERVICE The department performed over a hundred identifications of minerals, gems, and rocks for the general public. A further thirty identifications of minerals, gems, and rocks were made for other ROM departments. About 175 inquiries from the general public concerning various aspects of geology and mineralogy were processed, and twenty researchers from government, industry, and universities used the collections in connection with a variety of projects. Several tours of the department's research facilities were conducted for a variety of professional and special-interest groups. Seven special tours of the mineralogical collection were arranged for students and other groups, and a display of Mont St-Hilaire minerals was exhibited at the Rochester gem and mineral show. Curators gave media interviews; reviewed scientific and popular manuscripts for colleagues, students, journals, research granting agencies, and other research organizations; and gave consultations to individuals from government, industry, and research institutions. Mr Ian Nicklin, geology research technician, taught mineral identifications to the Toronto Junior Field Naturalists' Club.

APPOINTMENTS, AWARDS, AND HONOURS Dr Krogh received \$68 160 from the Natural Sciences and Engineering Research Council (NSERC) and concluded research agreements with four

government organizations. Dr Mandarino received \$7680 from NSERC, the second instalment of a two-year grant. Dr Wicks received three grants totalling \$59 913: \$21 413 from NSERC, \$8500 from the Department of Energy, Mines, and Resources, and \$30 000 from Cassiar Mining Corporation.

Staff members served on several ROM committees and on a variety of boards and commissions of professional organizations.

DEPARTMENT OF ORNITHOLOGY

Allan Baker, Curator in Charge

Curatorial attention was focused on the International Ornithological Congress, a major international forum for the exchange of scientific information held every four years. This year the Canadian community of ornithologists hosted the congress in Ottawa. Department of Ornithology staff participated by working on the program committee and delivering oral papers, and by playing host to a number of foreign visitors who expressed interest in visiting our collections, recognized as one of the most representative in the world.

ACQUISITIONS Nearly one thousand specimens were added to the collections this year. Of note were a Rufous Hummingbird skin (only the second specimen record for Ontario); skeletons of Curlew, Terek, and Sharp-tailed sandpipers, new species for our collections; and a Rockhopper Penguin skeleton, representing a new genus and species.



Solitary Sandpiper photographed in Gogama by Mr Mark Peck, technician.

LOANS Loans were made to 139 artists and woodcarvers. Research and educational loans were made to diverse agencies, such as the Conservation Institute of the Canary Islands, the Smithsonian Institution, and the Toronto Field Naturalists' Club.

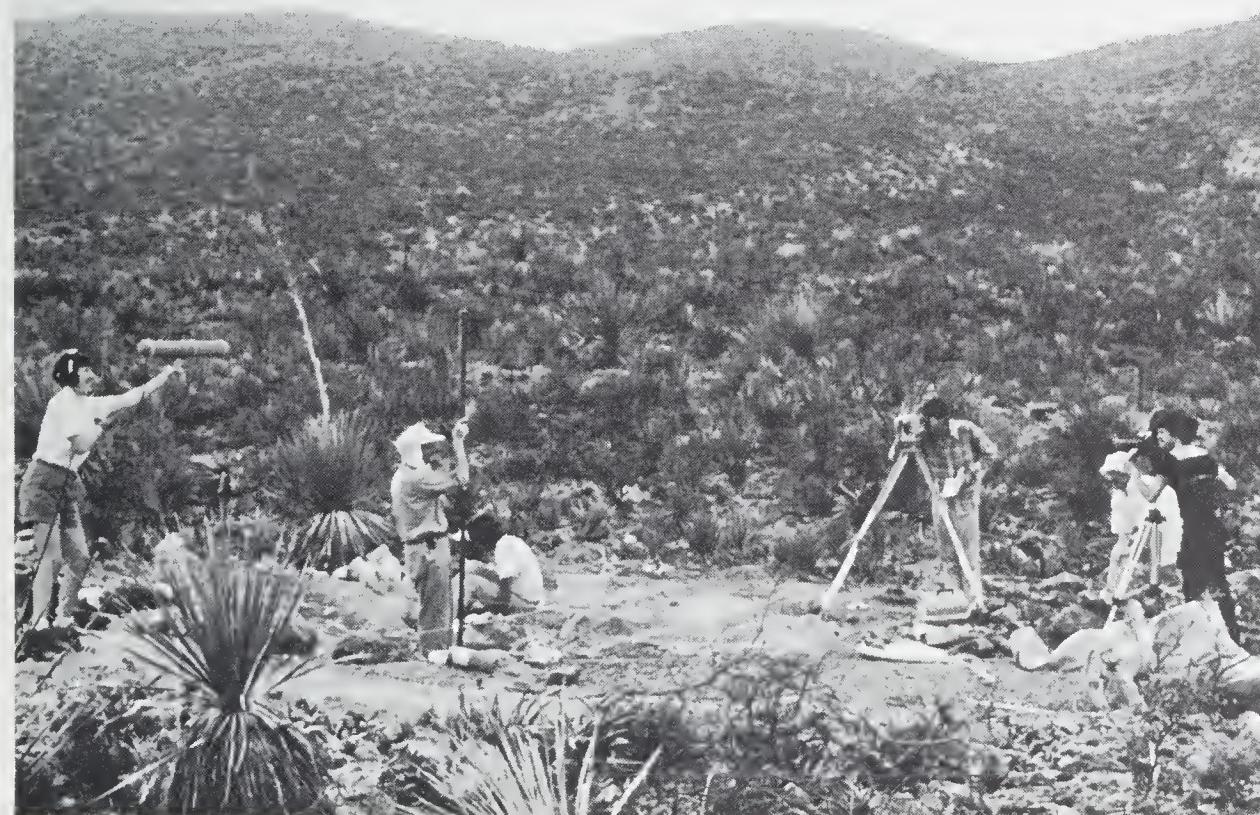
FIELD WORK AND RESEARCH The acquisition of display material for the gallery was a central objective of this year's field-work program. Dr Allan Baker and Mr Mark Peck, technician, obtained over two hundred unique specimens from New Zealand and Australia, including a Rockhopper Penguin, a Brown Kiwi, and a Wandering Albatross with a three-metre wingspan. During his sabbatical Dr Baker studied chaffinch populations in New Zealand and the Chatham Islands and continued his work on genetic variation and differentiation in shorebirds, which is

funded by the Natural Sciences and Engineering Research Council (NSERC). Dr Jon Barlow, curator, travelled to San Andrés, Colombia, to study vocal behaviour of the little-known St Andrew Island Vireo. He continued NSERC-funded research on the evolution of Eurasian Tree Sparrows and the ecology and vocal behaviour of vireos. Dr Ross James, associate curator, studied the effects of chemical and biological insect control agents on bird populations in northern Ontario and continued to gather information on forest composition and numbers and species of birds.

TEACHING AND LECTURING Dr Baker spoke on genetic variation and differentiation in shorebirds at the International Ornithological Congress. Dr Barlow also delivered a paper at the congress on adaptive divergence in New World island birds, and at the joint Wilson/Cooper Society meeting in Tennessee he talked about the vireos in Alberta. Dr Barlow taught "Systematic Ornithology" at the University of Toronto. Dr James lectured in the Faculty of Forestry at the University of Toronto. He led two field-work courses for the ROM on birding in the city, in addition to his yearly talks as part of outdoor education programs at various Ontario parks. Dr James delivered a public lecture on bird song in Newmarket and spoke to the Sudbury naturalists' and ornithologists' clubs.

OTHER PUBLIC SERVICE The Department of Ornithology invests considerable time in providing assistance to government agencies, the media, and in particular the general public. The inquiries attended to this year included requests for information about nesting behaviour, song, distribution, rare sightings, and identifications; and recommendations on books, courses, and birding locations. Assistance was also provided to numerous institutions and organizations, including the Ontario Ministry of Natural Resources, the United States Fish and Wildlife Service, the Australian Wildlife Service, and the British Museum. Staff members responded to requests from the media, including *Owl*, *Toronto Life*, and the *Toronto Star*. School groups and naturalists' clubs were given tours of the collections.

AWARDS, APPOINTMENTS, AND HONOURS Dr Baker received an Ontario Renewable Resources Research Grant to study stock discrimination in Canada Geese. Dr Barlow received a three-year NSERC Operating Grant for studies of behaviour, ecology, morphology, and genetics of vireos and sparrows.



DEPARTMENT OF VERTEBRATE PALAEONTOLOGY

Chris McGowan, Curator in Charge

The tragic death of Chief Technician Mr Gordon Gyrmov in an automobile accident while on his way to the ROM after the Christmas vacation overshadowed everything else this year. Mr Gyrmov, who had been with the Museum for twenty years, was not only the mainstay of the fossil preparation laboratory and the senior fossil collector, but a good friend and colleague to all.

FIELD WORK With rising costs and decreasing spending power, field activities have declined to a low level over the last few years. A generous donation from the *Toronto Sun*, however, enabled the department to send a field crew to northeastern Mexico to collect dinosaurs. The locality, unexcavated by other palaeontologists, is of Upper Cretaceous age and is contemporaneous with the Alberta Badlands, from which most of our dinosaurs have been collected. Operations were filmed by a unit under the direction of Mr Brian Hogarth, programs officer, Programs and Public Relations. It is hoped that the finished film, which gives an insight into how and why we went to Mexico to collect dinosaurs for the Museum, will be widely seen. Other acquisitions to the collection included modern fishes and reptiles from the southeastern United States, valuable additions to our comparative osteology collection.

RESEARCH Dr Gordon Edmund, curator, continued his research on the anatomy of the modern armadillo and completed a paper on the evolution of *Holmesina*, a giant, extinct relative. He also wrote a paper on silicone moulding, the subject of a presentation at the 1985 Workshop on Care and Maintenance of Natural History Collections. Dr Loris Russell, curator emeritus, gave the opening paper at the Dinosaur Systematics Symposium at the Tyrrell Museum of Palaeontology in Drumheller and then returned to the field to continue with his research on the terminal Cretaceous. Dr C. S. Churcher, research associate, who was on sabbatical, continued his studies in the Dakhleh Oasis of Egypt, and also visited East Africa. Kevin Seymour, curatorial assistant, and graduate student Mr Harold Bryant, made a study of the skeleto-muscular system of modern carnivores to

ROM film crew recording the excavation of a dinosaur quarry in northeastern Mexico.

cast light on relationships among fossil forms. Kevin Seymour also presented a paper on the computerization of collections at the collections management workshop.

With the assistance of Miss Tiina Kurvits, cataloguer, and Miss Marili Moore, technician with Collections Management, another 8721 fossil and 139 recent specimen records were added to the computer system. Mr Rudy Zimmermann, machinist, always interested in the functional significance of the skeletons he assembles, constructed a full-sized mechanical model of the head of a duckbilled dinosaur to test his hypothesis on the function of the crest and bill. Underwater trials, conducted in the swimming pool at Hart House, confirmed the conclusions he drew from a simpler model, that hadrosaurs could have fed underwater without risk of drowning.

Dr Chris McGowan studied a recently discovered fossil reptile from the Jurassic of England. The study of the new species, which bears a superficial resemblance to a young swordfish, involved an analysis of growth in its living analogue. He gave the Vaughan Lecture, entitled "Flightless Birds and Bird Ancestors", at the Seventh Annual ROM Research Colloquium.

Dr Edmund and Dr McGowan each taught undergraduate courses (GLG 436 and ZOO 463) at the University of Toronto, and Dr Edmund continued his supervision of Ph.D. student Greg McDonald. Mr Jaime Alvarado joined us from Mexico to study swordfishes under the supervision of Dr McGowan.

STAFF Mr Zimmermann retired, leaving us all the poorer for the loss of his mechanical genius, but we were happy to welcome Mr Andrew Leitch, his replacement. He joined us just in time to accompany us to Mexico, where he distinguished himself not only as a first-rate collector, but also as an excellent cook.

CONSERVATION DEPARTMENT

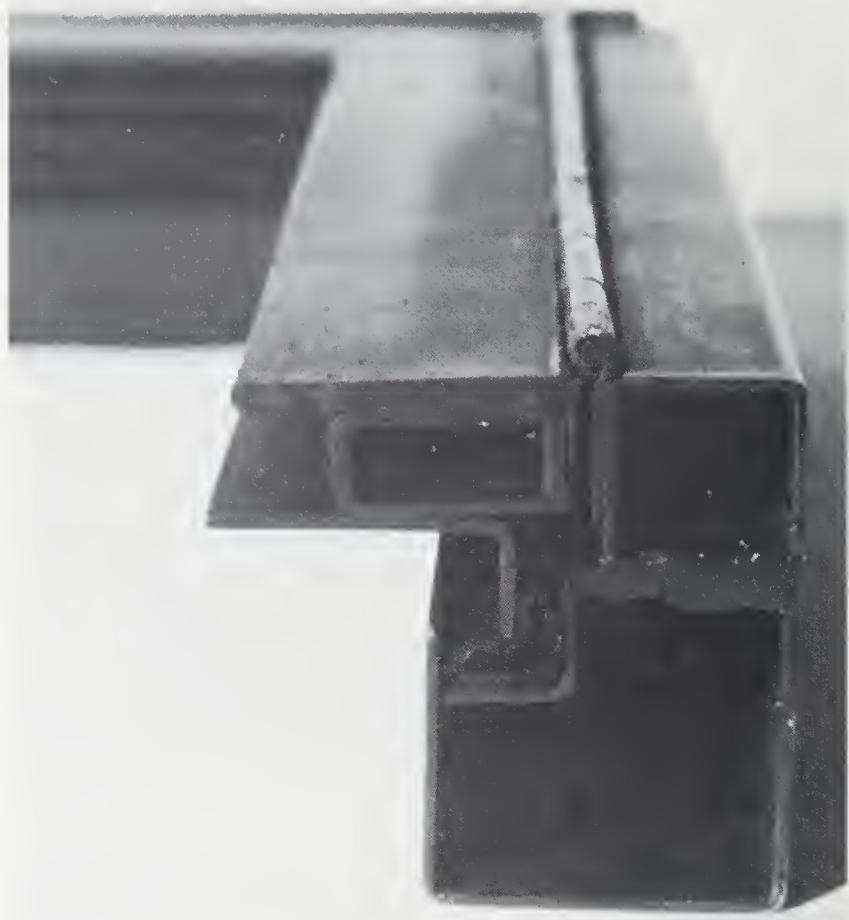
Susan Wilson, Head

Progress and accomplishments of the Conservation Department have been notable and widespread this year, although concentration on gallery work has continued unabated.

Conservators treated over one thousand artifacts in answer to varied Museum needs. Metals and ceramics specialists in particular were busy preparing objects for The Greeks and the Etruscans Gallery, opening in July 1986, but all conservators treated objects from the McLaughlin Planetarium and art and archaeology departments for future displays. All were involved in readying objects for 108 different loans. The decorative arts conservator alone worked on over fifty Egyptian wooden models for the Ontario Science Centre show *Food*. Most prepared objects for temporary exhibitions. Painting specialists treated all but five of the works in the *Canadian Portraits* exhibition, and textile conservators conserved and remounted seventy-five Canadian handwoven samples for travelling Outreach Services shows. As part of a collections maintenance program, the ethnographic conservator and interns completed several hundred minor treatments for the Department of Ethnology.

The processing of loans has been particularly demanding this year. The documentation officer supervised the writing of 3722 condition reports on artifacts lent to and by the Museum. Major exhibitions contributed to this 50 per cent increase. A record eighty-four borrower profiles were reviewed, reflecting the rise in single loans to multiple sites.

The micro-climate research project to develop means to control temperature and relative humidity in gallery cases has continued. The department benefited from working with Mr Stefan Michalski of the Canadian Conservation Institute, whose invention prototypes, a case leak-rate meter and a relative humidity



Prototype of the device designed by the Museum to provide an air-tight seal, by means of resilient tubing indented by a metal flange, for the environmentally controlled cases in the new galleries.

control module, are being tested and used in the Museum. Through the generosity of Museum Assistance Programmes, the ROM was able to purchase enough micro-climate-generators, developed by Micro-Climate Technology Inc., to meet the requirements of future galleries. One result of tests with these units was the development of a humidity chamber now used in the treatment of paintings. Assistant conservators faithfully monitored special environments in-house, and one year's continuous environmental record was collected for the first time in the Museum's offsite storage.

The staff now numbers sixteen. Miss Cara Reeves replaced Mr Enno Busse who resigned as an assistant conservator, and Mrs Ewa Dziadowiec and Miss Susan Stock became conservators on staff after two years on contract. Ms Cara McEachern has filled the new permanent position of documentation assistant created to help with the increased workload and the computerization of records. The department is very grateful to the National Museums Corporation for continuing salary support through the Conservation Assistance Programme for both the paper conservator and one assistant. It has also enjoyed the enthusiastic services of eight student interns, four volunteers, and three part-time employees.

The majority of staff were able to lecture at or attend seminars, conferences, and training programs. The paper conservator was a successful applicant for a position at the workshop on conservation of Japanese prints at Oberlin College, Ohio. The conservator of wooden artifacts was awarded his second Canadian Museums Association Short-Term Study Grant to continue his training in gilding at the Campbell Center in Illinois.

The department has reorganized in many quarters. Relatively obsolete and impractical equipment was disposed of, to be replaced in late 1986. Purchase of new cabinets permitted the safer housing of all toxic and flammable chemicals. Teaching slides were relocated into compact storage to make room for future expansion of the documentation area. The entire departmental archives have been sorted and properly filed.

LABORATORY OF ANALYTICAL SYSTEMATICS

Kian E. Chua, Supervisor

The Laboratory of Analytical Systematics was established in 1969 through a grant from the National Research Council of Canada and is supported jointly by the Royal Ontario Museum and the Department of Zoology, University of Toronto. Advanced biochemical, histological, and radiographic techniques are made available for research in systematic biology to the research community in the Museum and in the Department of Zoology. These services are also available to scientists in other universities and research organizations in Ontario, including ministries of the provincial government.

Work continued on several of the projects reported last year. New work undertaken, to a large extent by Mr Cary Gilmour, laboratory technician, includes the histology of the eggs of certain species of fish in a study of the morphology and function of fine surface structures; the atomic absorption analysis for cadmium and lead content of tissues from urban and rural squirrels; and the electrophoretic analysis of genetic variation in populations of introduced species of birds to determine evolutionary change through a known period of time. Radiographic equipment of the laboratory was used in studies of skeletal characters for the identification of fish species, pathology of the bones of fossilized animals, leaf morphology in the evolution of hawthorn, and morphology of sand dollars. For other departments of the Museum, radiographic services of the laboratory are also being used in the identification of archaeological artifacts and in the conservation of bronze and wooden materials.

Because the Laboratory of Analytical Systematics does not have an operating budget, services are provided to investigators at cost. Replacement of equipment, however, is done through special grants, which have been difficult to obtain in recent years. This year a submission to the J. P. Bickell Foundation by project coordinator Dr Glenn B. Wiggins, curator in charge, Department of Entomology, and Dr Kian E. Chua resulted in funding in the

amount of \$25 000. That support is gratefully acknowledged. Acquisition of several new items of equipment will enhance very substantially the efficiency of the laboratory and the services that it provides.

Dr Chua attended three congresses and workshops dealing with various aspects of laboratory science and was elected to membership in the New York Academy of Sciences.

LIBRARY AND ARCHIVES

Julia Matthews, Head Librarian

At the end of a working day, the material strewn over tables in the reading room and left in the carrels gives a good indication of why the ROM has a main library, and of who uses it. A bound volume of the *Illustrated London News* from 1859 lies beside a current issue of the *International Journal of Museum Management and Curatorship*. There are several guides to birds of the Caribbean and South America, as well as books and pamphlets on lacemaking. A thick volume of the *Index to Vertebrate Fossils* overlaps an equally plump directory of funding sources for non-profit organizations. Books and pamphlets on Maya architecture are stacked beside a copy of the library's reading list for the exhibition *Maya: Treasures of an Ancient Civilization*. From archaeology to zoology, library resources support the work of ROM staff, and of a wider public.

ACQUISITIONS Throughout its twenty-five year history, the library has depended upon donations, as well as upon institutional support, for the excellence of its collections. This year we were delighted at our good fortune in obtaining the working library of Dorothy Burnham, former curator of the Textile Department; moreover, some of the books were displayed in the exhibition *Canada's Handwoven Heritage*. Other gifts, including many from Museum staff, complement particular subject areas.

Contributions from the European, Mineralogy and Geology, and Exhibitions departments, and the associate director—cura-



Five o'clock on a typical day in the main library.

torial, made possible the purchase of a splendid collection of books on gemstones and jewellery-making from M. Carl Forget of Quebec City.

PUBLIC SERVICE We answered over three thousand queries from staff and the public during the year. As a museum library, we are approached on a wide variety of subjects by specialists, as well as by those just beginning to investigate something that interested them during a visit to a gallery. Library staff find this breadth of inquiry one of the most agreeable aspects of their work. We are pleased to make our resources available to community museums through our current awareness service, now in its second year.

TECHNICAL SERVICES During the year we began a project to convert the card catalogue (closed in 1977) to machine-readable form. This effort, planned and overseen by Mrs Isabella Guthrie-McNaughton, associate librarian, is ongoing, and would not have been possible without extra help both from volunteers and from part-time staff. In June the twenty-thousandth record was input; we estimate that at least as many more remain. Our normal cataloguing set a new record as well—3159 new titles. As our computer capacity continues to expand, we have found that the use of electronic messaging speeds up our interlibrary loan service, as well as internal communication. Other libraries are interested in the applications we have developed, and we were pleased to be invited to profile the library in the *Canadian Library Journal*.

STAFF Without exception, staff members were involved in continuing professional education activities—from on-line searching of quick reference questions to conference attendance. Following the resignation of Ms Julia Webster, assistant librarian, we were joined by Mr Peter Storey.

ARCHIVES Though there is no archivist, requests for archival material have been heavy. Candidates in the University of Toronto Museum Studies Program, for example, have been producing papers drawing upon departmental records. The head librarian gave several illustrated lectures on the history of the ROM. Blueprints of the original exterior were useful in scale-model construction for a future gallery. Best of all, a tour of the space for the Canadian Association of Special Libraries and Information Services yielded an experienced volunteer, Patricia Prevey, who has undertaken many useful special projects. Christine Gutierrez volunteered to tackle the photographic collection. To them and to the others who take an interest, we are grateful. What they have done will help all those involved in seventy-fifth anniversary preparations.

PREPARATORS DEPARTMENT

Vivian Peverley, Head

During the year of 1985/1986, the department was involved in a great number of temporary exhibitions. The year's work began with the dismantling of an exhibition of folk art called *From the Heart: Folk Art in Canada*. Preparations then got under way for the arrival of *The Precious Legacy: Judaic Treasures from the Czechoslovak State Collections*, which was installed during the month of August. This very successful exhibition ended its tour at the ROM in November. Another exciting and successful show, mounted in exhibition hall, was *Maya: Treasures of an Ancient Civilization*, which closed in June.

After dismantling the exhibition of Glen Loates paintings, *A Brush with Life*, the department had to return a number of paintings that had been borrowed from private collectors throughout

the city. The textile display *Fabled Cloth: Batik from Java's North Coast* was dismantled and replaced with an exhibition of recent acquisitions. This in turn was disassembled and replaced with a display named *Value versus Vision: Chinese Export and European Chinoiserie Textiles of the 18th and 19th Centuries*, which was installed in June for July opening.

Works by the famous Canadian painter Paul Kane were displayed at the Sigmund Samuel Canadiana Gallery. This exhibition, *I Took His Likeness: The Paintings of Paul Kane*, was removed and replaced by a textile display, *Canada's Handwoven Heritage*, which was dedicated to Dorothy Burnham, former curator of the Textile Department.

Members of the department travelled to Baltimore for the final dismantling of the Museum's own travelling exhibit *Silk Roads • China Ships*. The exhibition was packed and shipped to the ROM, where it was reorganized and remounted under the new title *Clipper Ships and Caravans*.

A loan to Korea is in its final stages of packing and awaiting shipment. Material for this loan came from the collections of the Far Eastern Department. A number of loans were processed during the year; the majority of them went to the United States, but others were shipped throughout Ontario. Work was also performed for Outreach Services on a number of its travelling exhibits.

Among permanent galleries now under way is The Greeks and the Etruscans, with a completion date of June 1986. This collection demanded many, many hours of work to fabricate mounts and supports for the display of the artifacts. The East Asian Gallery is under construction and will be at a point sometime in August that the preparators can begin work on installation of the collection for an opening in September 1986.

Telephone calls were many and came from a variety of callers, with just as great a variety of requests for help. They ranged from a request for instructions for building a shark cage to one for information on the packing and shipping of mechanical geese for use at Expo 86 in Vancouver. We also had a visitor from the coast of West Africa needing advice on mounting techniques to help in displaying the crafts of his fellow countrymen at Expo 86. Not only did he request information, but indeed he asked if the department could do the job for him. Needless to say, we had to turn him down.

REGISTRATION DEPARTMENT

Sonja Tanner-Kaplash, Registrar

The major responsibility of the Registration Department is the creation and maintenance of a centralized registry to document Museum collections. To this end, a variety of specialized computer applications have been developed, enabling the department to monitor an increasing volume of transactions efficiently with the existing staff complement. Twice this year, five staff members have presented three-day courses to thirty students from Ontario and Quebec, as part of the Ontario Museum Association's (OMA) certificate course in museum studies. The department has also provided an opportunity for "hands-on" training for interns from several university and community college programs across Canada. This year we bade a fond farewell to Mrs Lissa Peck, the assistant registrar since 1982; some of her responsibilities have been assumed temporarily by Ms Susan Haight, administrative assistant, and our long-time acting departmental assistant, Mrs Irene Green.

ACQUISITIONS AND RECORDS SECTION This section maintains detailed documentation of Museum acquisitions, including gifts certifiable under the Canadian Cultural Property Export



Ms Sandra Kirkpatrick, registration assistant, conducting a random check of collections locations with the assistance of Mr Aaron Brownstone, curatorial assistant, Department of Ethnology.

and Import Act. This year fifteen applications were prepared for major donations to science and art and archaeology departments. Considerable advances have been achieved in the computerized ROM Administrative Data Base; originally started in 1978 as a minimal record of art and archaeology collections, it is now being expanded to include more information about early Museum collections, acquired since 1886. Among other things, this record enables the section to monitor artifact locations anywhere in the building. Until March 1986 the section was headed by Ms Gillian Pearson; the present acquisitions and records coor-

dinator is Mrs Leigh O'Mara, aided by Ms Sandra Kirkpatrick and Ms Helen Chirnomas, registration assistants.

CUSTOMS AND SHIPPING SECTION This section provides Museum-wide services to science, art and archaeology, and administrative departments—such as arranging tax exemptions for purchases of equipment and supplies, which has resulted in considerable savings. Microcomputer applications have become increasingly important in managing the workload of the section; classification of imported goods is assisted by a new tariffs data base, and over six hundred transactions a year are recorded and tracked automatically. Gradually, manual records are being replaced by electronic data, and a “first” this year was the exchange of information on disk for the exhibition *Maya: Treasures of an Ancient Civilization*. Mr Barry McQuade, customs and shipping coordinator, celebrated his tenth year in the department; he was assisted by Mrs O'Mara until May, when Ms Catherine Blackbourn joined the section as registration assistant.

LOANS SECTION Special exhibitions, including *The Precious Legacy: Judaic Treasures from the Czechoslovak State Collections* and the *Maya* exhibition generated a high volume of work; the latter involved long-range planning—beginning with ROM's contribution of artifacts, and culminating in the arrival of the exhibition convoy from Dallas. This planning process was greatly facilitated by the development of computer skills in the section. Assistance to other Museum departments included the coordination of contracts and logistical arrangements for a major loan from the Far Eastern Department to the National Museum of Korea and the multi-departmental loan to the *Food* exhibition at the Ontario Science Centre. The section welcomed a new registration assistant, Ms Cara McEachern, in June 1985, and continues to be headed by Mrs Heather Maximea, loans coordinator, assisted by Ms Ronnie Burbank, registration assistant.

PUBLIC SERVICE AND PUBLICATIONS Papers were delivered by the registrar at the annual meetings of the International Council of Museums Documentation Committee in Ottawa and the Canadian Museums Association (CMA) in Victoria. Mrs Maximea was appointed Ontario representative for the CMA Registrars Committee, Mrs Sonja Tanner-Kaplash became vice-president of the OMA, and Ms Haight joined the Editorial Committee for the OMA *Quarterly*. In terms of internal committee work, Mr McQuade contributed substantial time to the Job Evaluation and Salary Review Committee, and Ms Burbank became a member of the Joint Daycare Feasibility Study Group.

Operations Departments

Henry Graupner, Associate Director

The appointment of Mr Michael Shoreman to the newly established position of controller was the culmination of a series of reviews and discussions of the need for the Museum to provide itself with the necessary expertise to carry out more advance planning for both financial and general Museum activities. New financial reporting systems are being introduced to provide better information on current activities and the necessary base for future plans. Mr William Graesser was appointed head of the Accounting Department to fill the vacancy left when Mr William Takaki became assistant to the controller.

Development of the Museum's permanent galleries and the implementation of a program of temporary exhibitions continue to be the main focus of a number of people in the Operations group of departments. Details of these activities will be found in individual departmental reports.

Ms Margo Welch was appointed manager of the Exhibitions Department, having previously served as development campaign assistant in the Development Office. Janet Banks was appointed head of the Security Department.

During the year the Museum's obligations as an employer under the provincial occupational health and safety legislation received emphasis through the introduction of more rigorous inspections of some of the workplaces within the Museum. A number of remedial actions were taken and other improvements were made to ensure safety in the workplace. Museum management, together with the Joint Management/Staff Health and Safety Committee, will continue to ensure that all Museum staff work in safe surroundings, especially while the provincial standards for occupational health and safety continue to be revised and improved.

PUBLIC PROGRAMS DEPARTMENTS

Ken MacKeracher, Assistant Director

Unprecedented growth in attendance, an expansion of planning activities, and leadership changes highlighted Public Programs stream activities this past year and are reflected in the departmental reports that follow. For the first time since 1976, when admission was a fraction of the current rate, the Museum hosted over a million visitors, and Outreach Services experienced the best year on record. Popular exhibitions, including *Fabled Cloth: Batik from Java's North Coast*, *The Precious Legacy: Judaic Treasures from the Czechoslovak State Collections*, and *Maya: Treasures of an Ancient Civilization*, were major attractions. Successful education, planetarium, membership, and public and special events involved significant new numbers of Museum members and other participants.

This year the McLaughlin Planetarium joined the Public Programs stream; the year also saw the launch of a revitalized Continuing Education program. For the second time a stream retreat involved volunteers and staff from all parts of the Museum in a participatory three-day advance planning agenda. Two interdepartmental task forces, dealing with improvements to school services programs and a broader and integrated summer program, were launched and a fledgling seniors' program council got under way.

Grants coordinated by the special projects officer in 1985/1986 totalled \$270 000 and were spread across the Museum. Of particular note was the team approach taken to an application for

funds to purchase micro-climatically controlled display cases for the East Asian, European, and Ancient Near East galleries, which resulted in a grant of \$186 000 from the Museum Assistance Programme of National Museums of Canada. Other grants of varying amounts were successfully sought to assist with the purchase of storage equipment for the West Asian, European, and Invertebrate Palaeontology collections; to assist in hiring interns to learn and work in the Discovery Gallery and in marketing and publicity; and to hire staff to help with the documentation of the New World Archaeology collections.

Mrs (R. H.) Bette Shepherd served as president of the Members' Volunteer Committee for 1985/1986, a year that also saw some changes in departmental leadership. Mr Archie Foss retired after eight years as head of Extension Services. This operation was merged with Museum Advisory Services, whose head, Mr David Young, took charge of the newly created Outreach Services. Mr Hugh Porter became head of Publication Services, when Mr John Campsie, who had been with the Museum twelve years, retired. Mrs Stephanie Orange, an eight-year Museum staff member, moved to the United States with her family and was replaced by Mrs Marilyn Cook, formerly executive assistant to the associate director—curatorial. Ms Susan Fraser resigned as head of Programs and Public Relations near the end of the year to go to another enterprise.

EDUCATION SERVICES

Ronald Miles, Head

This has been a most unusual and eventful year for the department. Beginning in the fall of 1985, all but one of our programs were cancelled because of the labour dispute in effect for five weeks. It seemed, at the time, that we would have difficulty recovering momentum for our normal schedule of teaching and

other programs, but in terms of attendance and revenue for 1985/1986 we have managed to surpass all previous years since the Museum's reopening.

The total attendance for all Education Services programs was 137 793. Individual programs included in the total are School Visits: 120 003; Creative Arts: 11 073; Discovery Gallery: 4031 (included in School Visits); Continuing Education: 1788; FOROM: 3652; Teachers' Workshops: 1277.

The two major exhibitions, *The Precious Legacy: Judaic Treasures from the Czechoslovak State Collections* and *Maya: Treasures of an*



Students completing a science lesson in an Education Services classroom.

Ancient Civilization, had considerable impact on our programs. It was unfortunate that we were unable to fulfil all our commitments for scheduled school visits for *The Precious Legacy* in the fall, but the *Maya* exhibition was attended to virtually full capacity by 19 944 students and teachers. For the short period that classes were scheduled for *The Precious Legacy* the attendance was 1055.

SCHOOL VISITS The pattern of requests for teaching classes directly related to curriculum units is clearly evident. The fact that there is frequently a degree of urgency expressed in the timing of the visit makes a very satisfactory comment on the value placed on the ROM as a teaching resource. In addition to gallery teaching, our four Education Services classrooms were scheduled to near capacity. According to the enthusiastic comments received from the visiting teachers, the experience of actually handling original objects from the ROM collections during a lesson has stimulated new interest in many subjects.

CREATIVE ARTS This program has become increasingly popular, especially in the summer session for small children. During July 1985 alone, 6615 attended various offerings with a half-day option of sports and recreational activities centred at the University of Toronto.

The Saturday Morning Club fall semester was cancelled, but the next two semesters were marked by an excellent attendance of 2579. The Adult Art program continued to build a committed following of 1188 people for the spring and summer sessions. The summer program alone drew almost 60 per cent of the total attendance.

DISCOVERY GALLERY The opportunity to handle objects from the ROM collections continues to fascinate both adults and children in this eclectic museum-in-a-gallery. Constantly changing displays are designed to stimulate interest in a broad range of disciplines. An evaluation project by a group from the Ontario Institute for Studies in Education provided objective insights and recommendations of concrete goals for the development of the gallery. Attendance comprised 4031 students in school groups and 39 989 people, half of them adults, during public hours.

CONTINUING EDUCATION Continuing Education became a separate unit of the department, with a staff of two. It is now responsible for coordinating and administering all adult education programming of the ROM. The main thrust of the programs was planned to occur during the two major exhibitions. Speakers of international renown were engaged for both *The Precious Legacy* and *Maya* exhibitions. In addition, one-day field trips were

undertaken; intensive special-interest workshops were instituted; cooperative ventures were undertaken with sister institutions; and creative, interactive art programs were extended.

FOROM Mainly for seniors, this weekly film series is divided into theme sessions, which provide insight and provoke discussion of various interests. The series continues to build a most appreciative audience who have become ardent supporters of the ROM.

TEACHERS' WORKSHOPS A very important element of our teaching programs is consultation with our colleagues in the education system to inform them of the teaching facilities available at the ROM. Professional Development activities were planned for 456 teachers from various boards of education on designated PD days.

"Information Update" is a further attempt to widen the circle of educational interest in the ROM. It provided 200 teachers with access to research finds and in-depth information from ROM curators in informal contact. An overwhelming number of 474 teachers attended a special evening held in conjunction with the *Maya* exhibition.

ACKNOWLEDGEMENTS Again this year some 150 volunteers have given us tremendous support. The Monday morning volunteers, classroom assistants, exhibition assistants, Creative Arts volunteers, and Discovery Gallery assistants are owed our very special thanks. They have more than earned a peaceful summer.

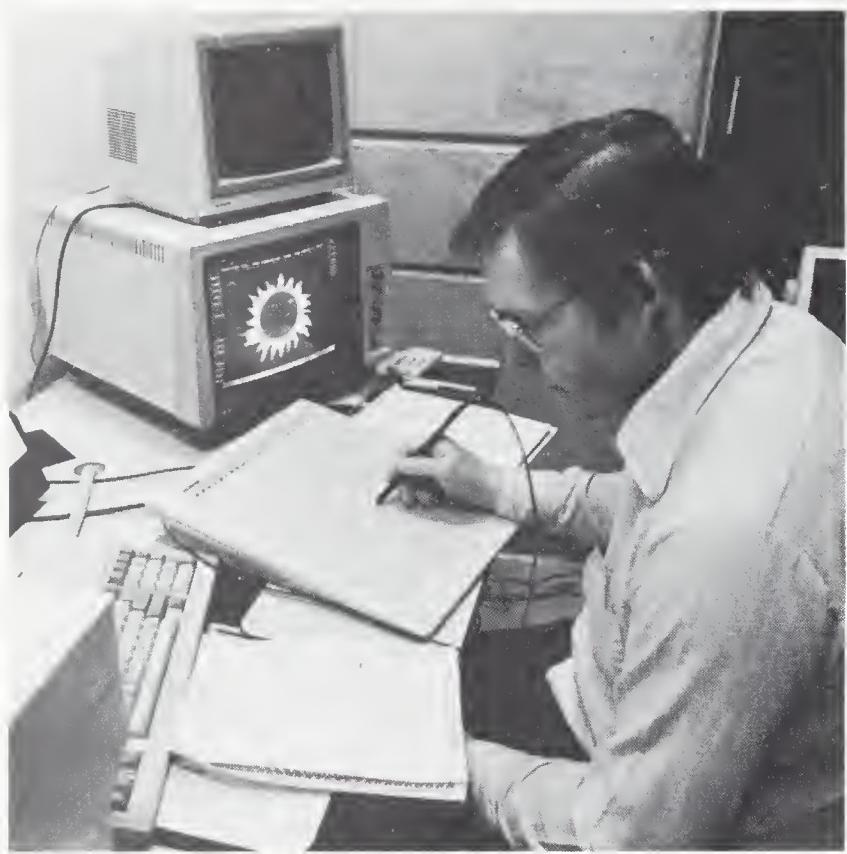
Acknowledgement is due to the Metropolitan Toronto School Board for its generous secondment of a teacher each year. We have been very fortunate in receiving especially talented teachers to augment our staff.

THE McLAUGHLIN PLANETARIUM

Thomas R. Clarke, Head

The past year featured the long-awaited return of Halley's Comet, which was largely responsible for the highest public show attendance since 1969/1970. School show numbers were the best since 1975/1976.

STAR THEATRE PROGRAMS *Public Shows:* Six programs were presented, including three new productions: "The Return of Comet Halley", an update of same, and "A Matter of Gravity".



Planetarium artist Mr William Ireland preparing a graphic for a planetarium school show, using the new computer graphics system.

School Shows: "The Comet Returns" was produced for grades seven to ten. In addition, the regular school offerings of six shows were maintained. **Alternate Programming:** In the fall laser shows were replaced by an experimental theatrical show, "Thunder Perfect Mind", produced with much planetarium assistance by Toronto Free Threatre. In April laser shows were resumed, under contract with Audio Visual Imagineering, with a very successful "Laser Beatles" program.

ATTENDANCE Public show attendance increased by 40 per cent to 164 875 for 978 shows. School show attendance grew by 24 per cent to 61 231 for 253 shows. Attendance at alternate programs was down by 42 per cent to 51 237 for 323 shows, mainly because there were fewer shows.

GALLERY DEVELOPMENT AND DISPLAY Work on the Astro-centre (planetarium gallery) is complete through the final detailed design. As part of an expanded responsibility for a-v in the ROM, planetarium staff gave assistance in the planning and installation of equipment to four gallery-development teams and the exhibition *Maya: Treasures of an Ancient Civilization*. As a result of regular maintenance and a number of improvements to equipment in the Evolution, Dinosaur, and Music galleries, gallery a-v performs more reliably than in past years.

IMPROVEMENTS AND TECHNICAL DEVELOPMENT After a year of operation, a few minor deficiencies still remain in the Star Theatre automation system. Installation of improved software required reprogramming of all shows in late April. A film sound synchronizer and an audio mixer were installed for "Thunder Perfect Mind" and are now used in planetarium shows. A computer graphics system capable of production of high quality (4000 line) 35 mm slides was purchased for production of show and print materials. Soft-edge masking installed for panorama and all-sky systems improved the appearance of both the theatre and the projected images.

TEACHING AND LECTURING Eleven special lecture demonstrations were given to a total of 1365 postsecondary students representing six institutions. The star theatre was also used for special groups such as the Royal Astronomical Society of Canada,

the Saturday Morning Club, Creative Arts, and Power Squadrons. Sixteen Monday evening Star Gazing Workshops were provided to 709 participants. Three multi-session astronomy courses drew 116 registrants. A broadsheet on Halley's Comet was produced through Outreach Services and proved very popular. "The Return of Comet Halley" interactive video was re-edited into a thirty-minute video tape. Fifty tapes and reproduction rights for 497 copies were sold to various Ontario school boards. An Astronomy Unit for grades five to six of about one hundred pages of information, resources, and activities was developed and field tested and is now in its final draft.

Perhaps the unique activity for three staff members was serving as interpreter-guides on a Canadian Pacific Airlines flight out of Toronto to see Halley's Comet from a height of 11 000 metres.

OTHER PUBLIC SERVICE The astronomical information line was particularly well used during the period of Halley, with calls per day increasing from a typical 25 to over 250 in January. For the year calls totalled over 23 000 for the fifty different messages. Twenty-two lectures and seven teacher workshops were given. Fifty-two media interviews are documented, most of them dealing with Halley's Comet. Forty-two loans of slides and film involving almost 800 items were made. Over 150 separate inquiries were dealt with by phone, correspondence, or appointment, not counting the hundreds of routine astronomical inquiries handled by receptionists.

MEMBERS' VOLUNTEER COMMITTEE

Bette Shepherd, President

For twenty-nine years, the board and staff of the ROM have offered an almost perfect cultural climate for the growth and maintenance of a Members' Volunteer Committee. Their whole-hearted support for, and at the same time challenging nurturing of, volunteers has made it a pleasure to provide programs, develop new projects, and raise money for gallery development.

ONGOING PROGRAMS For the Docent Committee, this was the year of special exhibitions and opening previews. The docents conducted tours for more people and made more money for the Museum than ever before. In over a thousand tours, 31 000 ROM visitors were encouraged to appreciate and enjoy Museum galleries; special exhibitions, such as *The Precious Legacy: Judaic Treasures from the Czechoslovak State Collections* and *Maya: Treasures of an Ancient Civilization*; Canadiana collections and luncheons; and "Coffee with the Curators". Special group tours brought in \$14 000. ROM guides were trained by the docents to give general Museum tours evenings and weekends.

ROMbus again conducted a successful program of one-day bus tours. Gems, corporate board rooms, theatre, and Mexican cuisine were Toronto highlights; out-of-town tours included the Burdett Wildlife Gallery, Kitchener; the Seagram Museum, Waterloo; Markham and Unionville; Port Hope and a visit to Sam-son Farms; and the Woodbine and a special "Race for the ROM".

ROMfocus presented sixty-two slide shows to 1677 interested seniors, community groups, school classes, and service organizations this year, helping to introduce new galleries and special exhibitions. ROMtalk tailored each free twenty-minute talk on ROM facilities and coming events to suit the interests of the group addressed, making new friends and members for the Museum.

During July and August 1985 the blue umbrellas of MVC ROMwalkers could be seen leading ROMwalks through historical areas of the city. Twenty ROMwalk guides gave eighteen free walks to over a thousand people, as well as conducting twelve

specially arranged groups. ROMwalks Plus offered four featured walks followed by gastronomic delights.

Celebrating its tenth anniversary, the MVC ROM Travel Committee coordinated and led World Civilization Tours to Bali, Bangkok and Burma, China, Southern Germany, Kenya and Tanzania, and Jordan and Cyprus. A new venture, the short, economical Getaway Trip, took full complements to Montreal and Point Pelee. Splendid efforts to ensure the comfort and pleasure of participants on these trips produced over \$31 000 in donations for the ROM.

Our almost four hundred dedicated ROM Volunteers manned information and membership desks, acted as classroom assistants and gallery resource persons, helped in the Discovery Gallery and with seniors' programs, served as exhibition volunteers, and fulfilled myriad placements in curatorial departments and special programs. This year a special lecture program was inaugurated in appreciation of their efforts, at which curators and staff generously gave of their time and talents.

Constant activity by our Decorating Committee produced beautiful bouquets and floral arrangements for special occasions, new members' receptions, and annual meetings. Dried-flower arrangements for Canadiana, Victorian and Rotunda Christmas trees, and continuous decoration of the Members' Lounge can all be attributed to their creativity.

SPECIAL PROJECTS Special projects undertaken this year by the MVC included a farewell luncheon for Dr James E. Cruise at the Toronto Hunt Club in June 1985, a luncheon for the staff in September, and a telephone campaign to raise money for gallery development on seven nights in November. On 25 January we produced "Murder at the ROM", an evening of fun and mystery to entertain members of the Royal Terrace Club. In February we inaugurated our popular "Coffee with the Curators" series, and on 9 April we instituted our first "networking" with other volunteer organizations: "Maya Day" with the George R. Gardiner Museum of Ceramic Art. Members of the MVC helped celebrate the opening of the *Maya* exhibition by modelling jewellery from the ROM Shop; they sold over \$1500 worth of jewellery. In memory of Gloria M. Turner, the MVC donated a Chinese word-processing program to the Far Eastern Department.

The Ontario Ministry of Citizenship and Culture this year presented the Volunteer of the Year Award to MVC member Mrs Joan Randall. A Special Volunteer Service Award also went to ROM Volunteers Mrs Lois Ely, Ms Hazel Goldie, Mr Sid Burchell, and Mr Stan Macnaughton.

In November 1985 the Members' Volunteer Committee completed its pledge for \$500 000 to the Renovation and Expansion Fund. In June 1986 we presented a cheque representing our efforts for the year in the amount of \$51 500 to the Gallery Development Fund.

TEXTILE ENDOWMENT FUND COMMITTEE The Textile Endowment Fund Committee supports the Textile Department and helps publicize its world-class collections, as well as current textile exhibitions in the ROM. Last spring the TEFC sponsored two lectures by international speakers to complement the exhibition *Fabled Cloth: Batik from Java's North Coast*. A series of lectures on Early Canadian costume brought speakers from Ottawa and Montreal. The biennial Christmas fund-raising event "An Angelic Christmas" offered creative needlework for sale and auction—the *pièce de résistance* was an Angelic Quilt. The TEFC pays special honour this year to the outstanding efforts of Mrs W. B. Harris, who under the aegis of the ROM Speakers' Bureau has travelled throughout Ontario for the last eight years lecturing to five thousand people in over seventy speaking engagements.

Important happenings in June in support of the Textile Department included helping to play host to the Costume Society of America; a publication party to celebrate Dorothy Burn-

ham's new book, *Unlike the Lilies*; and the opening of the special exhibition *Canada's Handwoven Heritage* in the Sigmund Samuel Canadiana Gallery.

BISHOP WHITE COMMITTEE The aim of the Bishop White Committee is to support the Far Eastern Department and to develop the Far Eastern Endowment Fund. The ROM Board of Trustees executed a revised trust document to ensure the continuation of the fund. It was decided to use the income from the fund to establish a Bishop White Chair for the department.

Programs this year included a fall lecture series on Chinese painting, a visit to York University to view an exhibition of modern Chinese art, the annual winter luncheon at Sai Woo (TV's Tom Clark was speaker), and an April cocktail reception presenting highlights of the ROM trip to China. Profits from these ventures and continued support and increasing membership of the Friends of the Far East have enabled the Far Eastern Endowment Fund to approach a total of \$400 000. In addition, donations to the Gloria M. Turner Fund have reached a total of \$6000, which will be turned over to the Far Eastern Department for its Library Fund.

MEMBERSHIP SERVICES

Stephanie Orange, Head

This year the ROM has been the place to be—and our members came in large numbers. The action began in September when members received a special invitation to preview the exhibition *The Precious Legacy: Judaic Treasures from the Czechoslovak State Collections*. They came several days before the public opening and enjoyed an outstanding day-long preview, including a program of Czechoslovakian music and dance. The exhibition was opened by our new director, Dr T. Cuyler Young, Jr. The Members' Lounge joined in the activities by serving a special menu whose praises were sung not only by our guests but by the *Globe and Mail*.

The fall saw a New Members' Reception that had doubled in size over the previous year's. New members got to know the Museum and packed the 350-seat theatre of the McLaughlin Planetarium to see the Star Show "The Return of Comet Halley".

The action was to intensify. In March members were invited to preview the outstanding exhibition *Maya: Treasures of an Ancient Civilization*. From eleven in the morning till nine in the evening the ROM was packed. Two opening ceremonies were held, one at noon and another in the early evening, in order that as many members as possible could enjoy the festivities. Authentic Maya instruments were played to the delight of the audience, and later the musicians serenaded the long lines waiting to view the exhibition. The activity in the Members' Lounge reached an all-time high as nearly six hundred diners were served from a unique Maya menu. During lunch and dinner the Members' Volunteer Committee modelled jewellery from the ROM Shop. It was perhaps a day of "over-activity".

The energy continued into May. Our Life and Upper Category Members took part in a draw for a special "Cognac Evening" sponsored by Rémy Martin, which was held in the elegant Members' Lounge. These members enjoyed an "educational" evening, including a delightful talk by Mr K. Corey Keeble, associate curator, European Department, on cognac and France, and then tasted five outstanding champagne cognacs.

Later that month new members enjoyed the opening of *Canada's Handwoven Heritage* at the Sigmund Samuel Canadiana Gallery. We were honoured to have author Dorothy Burnham, former curator of the Textile Department, join us. The Mem-

bers' Volunteer Committee poured tea, giving that special touch of elegance to the event. And the action continues as plans are put in place for upcoming special exhibition previews and gallery openings.

There were other activities during the year. Approximately 55 per cent of our members responded to the survey mailed in June 1985. The results were computerized and a comprehensive report was presented in January 1986. In March, Membership Services developed its first direct-mail campaign to solicit new members. The success of this mailing and the popularity of the *Maya* exhibition pushed membership growth for just two months to 125 per cent more than the total growth for 1985.

Active, functioning, energized, stimulating—this is Membership Services at the Royal Ontario Museum.

"Sky Show 1985", a poster plus teachers' and students' notes, featured *The Return of Comet Halley*. Duplicate resource boxes for *Inuit: Games and Toys* were completed in December. Two new school cases were also completed this year: *Arts of the Inuit* and *Arts of the Northwest Coast*.

A new in-school program was developed and offered to schools beyond the boundaries of Metropolitan Toronto. In this program, one of our three "travelling" teachers uses hands-on specimens and complementary learning materials to conduct lessons in the classrooms of Ontario schools. The program replaces the *Fossils of Ontario* museumobile, which was retired from circulation last winter after twelve years of service. The new program is highly cost effective compared to the museumobile program and has generated a very positive response from teachers and students alike.

Attendance statistics for the past year have broken all records and set a new milestone that will be difficult to attain in future years. Total attendance for all programs was a remarkable 1 171 188, almost double the previous record of 607 000.

All programs showed an increase. For example, on 28 August the Archaeology museumobile took part in the twenty-fifth anniversary celebrations of Black Creek Pioneer Village. Attendance for the day was 12 892, over 400 per cent higher than any previous record. From mid-August to mid-September, *The Return of Comet Halley* was shown at Ontario Place. This is the first time the department has displayed an exhibit at this Toronto attraction. More than 150 000 people viewed the exhibit at this one location. "Sky Show 1985" on Comet Halley was also the most popular topic since the inception of the program five years ago. Over 20 000 copies of the poster were distributed to Ontario schools, approximately double the number distributed in previous years.

With a grant from the secretary of state to develop French-language services at the ROM, the department was able to fund the production and distribution of a variety of new print materials, including a promotional brochure on the ROM and the McLaughlin Planetarium; a brochure on the Discovery Gallery and a variety of other brochures and flyers used by Education Services; a poster, a brochure, and signage for the exhibition *Canada's Handwoven Heritage*; a brochure on *Maya: Treasures of an Ancient Civilization*; and a brochure on *The Precious Legacy: Judaic Treasures from the Czechoslovak State Collections*.

The newly established province-wide consortium of museums for the bulk purchase of conservation and archival supplies to

OUTREACH SERVICES

David Young, Head

After eight years as head of Extension Services, Mr Archie Foss retired on 30 June 1985. Extension Services and Museum Advisory Services were then amalgamated and the new department was renamed Outreach Services. With its responsibility for producing and circulating travelling exhibitions, museumobiles, and cases and resource boxes for schools, for operating a speakers' bureau, for offering advisory services to Ontario museums, and for coordinating ROM French-language services, the department could not be better named.

New travelling exhibits added to the department's inventory over the past twelve months include *The Wonders of Waterfowl*, an exhibit of twenty-one specimens displayed in seven dioramas that replicate the typical habitats of these impressive birds; *The Return of Comet Halley*, which makes use of a laser video disk programmed for interactive use with a computer (copies of this video tape were produced for circulation to Ontario schools); and *The Ontario Iroquois*, composed of artifacts, maps, and photographs to provide a glimpse of Ontario prehistory through the work of ROM archaeologists. A new exhibit describing the operations of the department was produced and displayed at the ROM during the March school break, and at the Canadian Museums Association Annual Conference in Victoria, British Columbia, in May.

Mr Peter Butler, travelling teacher, showing fossils to students at Tavistock Public School. (Photo: *Tavistock Gazette*.)



reduce operating costs continued to grow and expand in its second year of operations. The enterprise is part of the department's program of providing advice and assistance to sister institutions in the province.

Outreach Services was assisted by generous grants from the Ontario Ministry of Citizenship and Culture and from National Museums of Canada.

PROGRAMS AND PUBLIC RELATIONS

Susan Fraser, Head

The public heard, they came, and they loved what they saw at the Royal Ontario Museum. Building an ever-growing response was one of the highlights of the work of Programs and Public Relations. Whether it was marketing or publicity campaigns or public programs, each enterprise won international acclaim and was used or copied by other exhibition sites.

The public heard about the exhibitions and the Museum in unprecedented ways. Comprehensive mailings to foreign press were organized on a major scale. The information generated visits by press representing important international publications and repeat coverage by media in neighbouring border cities of the United States. The ROM's exhibitions and activities were news items as far away as Israel, Florida, France, England, Italy, and Czechoslovakia. A reorganized and computerized mailing system with some one hundred specialized target codes for press meant more efficient and much broader coverage in new publications across the province as well as outside Canada. Particularly gratifying was the praise of international exhibition organizers who cited the ROM's press conferences for *The Precious Legacy: Judaic Treasures from the Czechoslovak State Collections* and *Maya: Treasures of an Ancient Civilization* as the best among all the host sites.

In support of more than twenty temporary exhibitions, press releases and press kits were distributed to hundreds of members of the media. In addition to publicity work for the exhibitions, the Media Relations unit supported the ROM's ongoing activities. The public learned about an important dinosaur expedition, the research undertaken on the Burgess shale, the painstaking research behind gallery development, opportunities to have coffee with curators, and much, much more.

The public responded to the media coverage and to the strategic advertising campaigns. They came to the Museum in record numbers. The McLaughlin Planetarium registered a 40 per cent increase in Star Show attendance. General admissions at the main building increased 25 per cent. Group tours brought 25 000 visitors, compared with a figure of 4000 for the fiscal period 1984/1985.

In one-third of the usually required time, the Marketing Unit produced a comprehensive advertising campaign to support *The Precious Legacy* and *Maya* exhibitions. In a breathtaking four months, copy and design approved by lending institutions were in place for magazine and newspaper advertising, cooperative marketing projects, posters and brochures, travel/trade packages, invitations, stationery, and press kits. Creative work produced by the ROM was used as well at a second Canadian site hosting *The Precious Legacy*. Material about the Museum's exhibitions and its famous galleries was brought to the attention of the travel/trade industry by mailings to over 4000 companies, as well as by the marketing manager's attendance at five major conventions representing some 5000 tour operators.

A founder of the Toronto and Region Arts Marketing Consortium, the department enjoyed seeing the inception of its successful proposal for a major cultural marketing campaign to be undertaken with support from federal departments, provincial ministries, and the Metropolitan Toronto Convention and Vis-



Medieval Pageant performed at the ROM in December by the Poculi Ludique Societas of the University of Toronto.

itors' Association. Planned for the early months of 1987, the campaign will be directed at three United States border cities.

Effective communication with the public resulted in increased attendance, record audiences for general Museum and docent tours, and larger audiences for ongoing education and public programs at the ROM. During the year over nine hundred public programs encouraged the public to make the ROM a priority visit. And the press responded with important headline coverage, whether it was for the beautiful Balinese dance troupe, the demonstration of ancient skills such as Chinese brush-painting or Japanese flower-arranging (*ikibana*), the innovation of Opera Atelier, or the magic of international Christmas celebrations. More than 130 000 attended public programs throughout the year. A highlight of the year's planning was the creative development of music programming. The Instrumentally Speaking program, the performances by the Tafelmusik Baroque Orchestra, a Medieval Pageant by the Poculi Ludique Societas, the Associates of the Toronto Symphony, and Opera Atelier attracted visitors to the Museum and helped them discover the musical heritage reflected in our collections. The programs organized for *The Precious Legacy*, in particular, won the praise of the Museum community and the media, becoming an important opportunity to encourage participation and appreciation. During the *Maya* exhibition the public was introduced to the traditions, music, and culture of what we believe is the legacy of the Maya. *A Japanese Retrospective*, *The Precious Legacy on Film*, *The Childrens' Festival*, *Digging up the Past*, and *From Maya to Mestizos* were offerings of the ROM Rep Cinema that helped generate new appreciation for the Museum and its resources.

An important development has been the creation of the first Program Consortium. Much like its sister Marketing Con-

tium, this group, initiated by the ROM, will invite sister cultural organizations to collaborate in program planning and scheduling and consider sharing program resources.

Special functions brought a new record of 22 000 guests and a gross revenue of \$86 000 to the Museum, with bookings for 85 private functions.

The success of the year's work in the department belongs to its extraordinary group of talented professionals who, as a team, have given unstintingly of their energy, creativity, and effort.

PUBLICATION SERVICES

John Campsie, Head

PUBLICATIONS Among the year's most notable productions was A. D. Tushingham's monumental *Excavations in Jerusalem 1961-1967: Volume 1*. Other publications in the art and archaeology program were *The Diaries of Edmund Montague Morris: Western Journeys 1907-1910*, transcribed and edited by Mary Fitz-Gibbon; *Unlike the Lilies: Doukhobor Textile Traditions in Canada* by Dorothy Burnham; and *Subarctic Saga* by Walter Kenyon. One life sciences title was issued during the year: Life Sciences Contributions 142, *Review of the Gobioid Fishes of the Chagos Archipelago, Central Indian Ocean* by R. Winterbottom and A. L. Emery. In the museology series we published *Connections*, the interim and final reports of the Continuing Education Task Force.

Six titles were reprinted, including *In the Presence of the Dragon Throne* by John Vollmer and *Egyptian Hieroglyphs Chart* by D. Champion and N. B. Millet, both of which went into their fifth printings.

The German-language edition of Basil Johnston's *Tales the Elders Told* was published in Austria by Verlag St Gabriel, and the French-language edition of the *Native Peoples of Canada* series (copublished in English by the ROM and D. C. Heath Canada Ltd) was published in Quebec by Éditions Vivantes Limitée.

SALES AND ORDER FULFILMENT After a strong start to the year, sales slumped sharply in the fall and continued at a lower level than usual for a few months. As a result, both the number of book orders filled (approximately 2200) and the net sales total for 1985/1986 represent sharp drops from the previous year's totals. However, by late winter the decline was reversed, and we look forward to better sales in 1986/1987.

PROMOTION AND DISTRIBUTION For the third year running, ROM Publications had a booth at the annual convention and

trade exhibit of the American Booksellers Association, which took place this year in New Orleans from 24 to 27 May. Ms Lynne O'Brien, advertising and promotion coordinator, and Mr John Campsie attended. Other displays of ROM publications were put on at the Ontario Library Association conference in Toronto, 22 to 23 November, and at new members' receptions in the ROM in October and February. Selected titles were included in a number of cooperative book exhibitions, including the Canadian publishers' exhibition at the Frankfurt Book Fair from 8 to 13 October, which Mr Campsie attended. Negotiations were begun at Frankfurt for the distribution of ROM scholarly publications throughout the world (except in North America) by E. J. Brill of Leiden. Contract negotiations continue at the time of writing of this report.

ROTUNDA A large part of the year's promotional/marketing effort was devoted to *Rotunda*. These were some of the highlights:

- Coast-to-Coast Distributing took 3370 copies of the November 1985 issue to try out news-stand distribution. The sale of 814 copies on the first news-stand appearance was considered an excellent and most encouraging result.
- Quality Service Programs Inc. included *Rotunda* among a number of magazines specially promoted from September to December 1985. They predicted a sale of 200 subscriptions; the final total was 759. A second campaign is now in progress.
- Publishers' Clearing House is promoting *Rotunda* during the January to July period. Results are not yet available.
- Ms Sandra Shaul, executive editor of *Rotunda*, was interviewed a number of times about the magazine on Radio Noon, and also on Fresh Air.

CONFERENCES AND SEMINARS Mr Hugh Porter, production coordinator, attended the Canadian Conference on Electronic Publishing held at the University of British Columbia, Vancouver, from 11 to 14 August 1985. Mr Campsie and Mr Porter both attended the annual general meeting of the Canadian Book Publishers' Council in Ottawa, 29 to 31 January 1986. ROM publications were among those on display at the meeting. Mr Porter and Miss Mary Terziano, editorial coordinator, travelled to San Francisco for the eighth annual meeting of the Society for Scholarly Publishing, held from 27 to 30 May 1986. In addition Mr Porter and Lorna Hawrysh, assistant production coordinator, attended various seminars and plant tours arranged by local suppliers.

STAFF CHANGES Mr Campsie retired from the ROM on 30 June 1986 and was succeeded as department head by Mr Porter. Lorna Hawrysh succeeded Mr Porter as production coordinator. Ms Barbara Ibronyi joined the department as an editor on contract.

OTHER OPERATIONS DEPARTMENTS

ACCOUNTING DEPARTMENT

William Graesser, Head

During 1985/1986 a new monthly financial statement reporting format was developed, on a functional basis, to provide the users with more meaningful information. Computer systems were developed for the Run for the ROM accounting and tax receipt systems. Our accounts receivable subledger was fully computerized in order to enhance collection procedures and manage the asset more effectively.

During the next year we will be converting our payroll system to another service bureau. This transfer will not only be cost effective but will also provide a more responsive and state-of-the-art payroll service. In addition, one of our 1986/1987 objectives will be to introduce microcomputers into the department to complement the mainframe computer environment and to meet the increasing demands for specialized financial reports. These steps will go a long way towards fulfilling the department's commitment to improve and enhance the financial information system.

EXHIBIT DESIGN SERVICES

Lorne E. Render, Head

Exhibit Design Services continues to mastermind the renovation of the ROM's entire public gallery space—a unique venture in the history of museums. This year marks the midpoint of the ten-year program, and now more than ever the guiding principle behind decision making has been to produce the galleries on time and within budget, without compromising quality. To achieve this goal most efficiently, this year the department initiated a review of its internal structure, purchased time-saving equipment,

streamlined administrative procedures, and is introducing a computerization system for gallery accounts. But it is in the development of the new galleries that efficient problem solving and application of state-of-the-art technology have been most in evidence.

GALLERIES This year saw construction in full swing for the next four major galleries, and the completion and installation of one, The Greeks and the Etruscans. This gallery, which comprises 630 square metres, is the first gallery to house the new climate generators and airtight cases developed by the ROM. In addition, a second centralized climate control system was installed in the gallery with the help of a federal government grant. Several new adhesives were researched by our graphic design section and tested by the ROM's Conservation Department. The gallery also features a new super-thin text carrier.

The next section of the new Chinese galleries, Later Imperial China, also includes a number of climate-controlled spaces to house the furniture displays. The generators had to be concealed in a false ceiling and access provided by means of a skywalk. The text for this gallery was typeset directly from computer disk, eliminating one time-consuming and costly step in the text production.

The McLaughlin Planetarium's new Astrocentre required research into methods of producing and vandalproofing supergraphics for the star-field backdrops to the exhibits.

Production of sixty-three thousand leaves for the hardwood forest diorama was contracted out to a manufacturer in Hong Kong in order to obtain the quality required at the right price. Experiments were conducted on new materials for the five thousand models of bats, spiders, and crickets for the bat cave. Collecting trips were undertaken in Canada and Australia for the new mammal, bird, and reptile galleries.

A new series of porthole displays was developed to offer the public a view of galleries under construction and an insight into the processes of gallery development. The first five of these ROM "Inside Out" displays were installed this year.



Finishing touches being added to the plaster and lath stalactites at the entrance to the bat cave.

EXHIBITIONS The department coordinated the mounting and dismantling of a dozen temporary exhibitions during the year, including the highly successful *Maya: Treasures of an Ancient Civilization* and *The Precious Legacy: Judaic Treasures from the Czechoslovak State Collections*. Other exhibitions included *I Took His Likeness: The Paintings of Paul Kane*, *From the Heart: Folk Art in Canada*, *Mountain Light: The Photography of Galen Rowell*, *Drawn from the Sea: Art in the Service of Ichthyology*, and *Canada's Handwoven Heritage*. Selections from the ROM's touring exhibition *Silk Roads • China Ships* were installed at the Museum as an exhibit entitled *Caravans and Clipper Ships*. In addition, two travelling exhibits were produced in collaboration with Outreach Services.

PROFESSIONAL ACTIVITIES Members of the department attended the annual conferences of the Canadian Museums Association in Victoria, British Columbia, and the Ontario Museum Association in Hamilton, Ontario, and took part in museology congresses, including The Team Approach to Exhibit Development (Field Museum of Natural History, Chicago), and the International Congress on Learning in Museums (The Children's Museum, Indianapolis).

Staff from the planning section taught sessions for the University of Toronto's Museum Studies Program and the Ontario Museum Association, oversaw an intern student from the Museum Studies Program, undertook committee and editorial work for the Ontario Museum Association, and researched exhibition techniques at cultural institutions in Canada, the United States, and England.

The department's Professional Development Program included seminars on exhibit development by visiting experts, including Dr Robert Kelly (University of British Columbia) and Mr Geoffrey Stansfield (University of Leicester, England). Product-oriented seminars were also given by a variety of commercial manufacturers. All members of the department attended a health and safety seminar given by the Ontario Ministry of Labour, and took part in an all-day think tank on the internal organization of the department.

Work has begun on developing the department's Resource Centre, with advice on records management from an outside consultant and the ROM library.

An international line-up of museum professionals, including representatives from the National Museums of Japan, the Sun Corporation, Texas, and the Association of Art Museum Administrators, consulted the department on exhibition techniques and planning procedures.

Four members of the department were seconded to the ROM's seven-member Gallery Development Review Commission, and the department was represented on the Museum's Job Evaluation and Salary Review Committee.

EXHIBITIONS DEPARTMENT

Margo Welch, Manager

The Exhibitions Department coordinates and supervises the mounting of special exhibitions in the Museum. This past year we experienced the challenges and rewards of highly acclaimed exhibitions.

The Precious Legacy: Judaic Treasures from the Czechoslovak State Collections (14 September to 24 November 1985) was organized by the Smithsonian Institution Traveling Exhibition Service and circulated in Canada by the Glenbow Museum, courtesy of the Czechoslovak Socialist Republic. Premier David Peterson opened the exhibition on its Canadian debut at the ROM. This haunting and informative exhibit provoked marvellous critical response



Torah curtain and valance, Austro-Hungarian Empire, c. 1730–1731. From the special exhibition *The Precious Legacy: Judaic Treasures from the Czechoslovak State Collections*.

and attracted an attendance of over 123 000 people, many of them first-time ROM visitors.

Maya: Treasures of an Ancient Civilization (22 March to 15 June 1986) was critically acclaimed as well as cost effective and drew more than 140 000 visitors. The ROM was a major contributor of artifacts to this beautiful exhibition on Maya art, as were the governments of Mexico, Guatemala, and Belize. The exhibit was organized by the Albuquerque Museum, and the ROM was the only Canadian stop on the itinerary. A complement to this show was *The Land of the Maya: Through an Archaeologist's Eye* (22 March to 15 June 1986), a photographic exhibition produced by Mayanist Peter Harrison.

Other highlights of the year, at the Sigmund Samuel Canadiana Gallery, were *I Took His Likeness: The Paintings of Paul Kane* (20 April 1985 to 27 April 1986), curators Mr Kenneth Lister, curatorial assistant, Department of Ethnology, and Mrs Honor de Pencier, curatorial assistant, Canadiana Department; and *Canada's Handwoven Heritage* (24 May 1986 to 11 January 1987), an exhibition dedicated to Dorothy Burnham, former curator of the Textile Department. The curator for this exhibition was Ms Adrienne Hood, curatorial fellow, Textile Department.

Exhibits on view at the main ROM building included *Canadian Portrait Gallery* (20 July 1985 to 31 December 1986), curator Mrs

Mary Allodi, associate curator, Canadiana Department; *Mountain Light: The Photography of Galen Rowell* (10 August 1985 to 5 January 1986), sponsored by John Labatt Limited; *Drawn from the Sea: Art in the Service of Ichthyology* (1 February to 21 May 1986), organized by the Smithsonian Institution Traveling Exhibition Service.

Finally, the ROM's travelling exhibit, *Silk Roads • China Ships*, completed a two-year North American tour and, with refinements and alterations, has been installed on the third floor of the Museum for an indefinite run as *Caravans and Clipper Ships*.

The 1985/1986 exhibition program was produced with the assistance and hard work of staff from over a dozen departments. Special thanks go to Mrs Jean Lavery, special projects officer, office of the assistant director—public programs, and Ms Lorendana Drusian, exhibitions assistant, for their special contributions.

PERSONNEL DEPARTMENT

Larry Allen, Head

During the 1985/1986 operating year, the Personnel Department processed more than 11 000 applications for employment, including 1200 Experience '86 applications, and filled 316 positions. In addition, 16 students were hired under the Experience '86 program and 19 under the Challenge '86 (SEED) program. Collective agreements were negotiated with OPSEU, SEIU (service unit), and SEIU (sales assistants). There was continued involvement in collective bargaining negotiations with ROMCA, which represents seventy members of the curatorial staff.

Departmental initiatives during the year included the following:

- Revision of the annual Employee Benefits Statement, which is circulated to all ROM employees.
- Commencement of production of an audio-visual employee benefits orientation program.
- Organization of information and training meetings for all exempt staff for the purpose of communicating the Salary Administration Program and Performance Evaluation Program.
- Renegotiation, at competitive levels, of the premium rates for the Employee Benefits Contract for 1986/1987, which covers all ROM employees.
- Refinement of the computerized Human Resource Information System to include pension benefit information.

PHYSICAL PLANT

James J. Forestell, Head

Physical Plant, operative on a seven-day week, twenty-four hour day schedule, provides operational and support services for the Museum buildings, departments, and staff. Major activities include the maintenance of the building structure and grounds, as well as the repair of electrical and mechanical systems, the provision of material handling and mail services, and the provision and administration of the telephone system and photocopying facilities. In addition, a considerable amount of "behind-the-scenes" support is provided for events, programs, functions, exhibitions, and the development of new galleries.

A small, but industrious, administrative staff has contributed greatly to the overall productivity, cost effectiveness, and efficiency with which Physical Plant operations have been carried out

during the last year, in dealing with the financial, contractual, and organizational elements integral to the services provided. The department has been active in seeing through the following projects:

- In October 1985 a new telephone system with the features of electronic switching was installed. During 1986 this system was fully programmed.
- In February 1986 a computerized preventive maintenance program for all mechanical and electrical systems became fully operational.
- A full assessment of housekeeping operations is under way, which will lead to a computerized program of maintenance for those elements of the building fabric for which housekeeping is responsible—floor and carpet maintenance, window cleaning, etc.

Throughout the year the housekeeping section has maintained a high profile in providing services for exhibitions, programs, events, and functions. On average, housekeeping staff provide approximately forty hours of labour per week in completing tasks associated with these events. This reflects the increased activity in both public programs and social functions, which, in turn, has placed higher demands on Physical Plant services.

The housekeeping staff, for many of whom English is a second language, are currently involved in an English in the Workshop Program to develop their language skills. This study will enable them to communicate better with staff and visitors, and they will benefit from specialized training sessions in housekeeping methods. The introduction of this course was made available as a result of the Museum's willingness to accommodate training that will benefit its workers both in the workplace and in the community, and the Ontario Ministry of Citizenship and Culture's and Metropolitan Toronto School Board's efforts to increase the opportunities available for learning English as a second language.

In January 1986 Mr Cecil Persaud joined the Physical Plant staff as maintenance superintendent, to take over the supervision of the building's operations and maintenance. His experience of many years in the industrial field will benefit the Royal Ontario Museum in providing a better environment for collections and staff.

The JC/85/40 computer that has served the Royal Ontario Museum so well for five years is to be updated to the newest revision this coming year, with the assistance of an Energy Conservation Grant of \$68 000 from the Ministry of Citizenship and Culture. With the system's expanded capability, it will be easier to control the environment with closer tolerance and in a more economical manner.

ROM SHOPS

Sophia Stepovy, Head

Since the reopening of the Museum in the fall of 1982, ROM Shops' operations have undergone modifications that have enabled the staff to expand the areas of wholesale, mail order, and corporate accounts, as well to maintain a reputation as one of the most extensive museum shops in North America.

Part of the wholesale product line available for sale at the retail level is the series of posters depicting objects from the art and archaeology and science collections within the Museum. Last year saw the introduction of posters representing the Canadiana, European, Far Eastern, Musical Instruments, and Egyptian collections. This year's representation continued the series with offerings from the Greek, Textile, and Maya Archaeology collections.

The ROM Shop continues to offer the public an opportunity to explore the Museum galleries in a retail setting and discover gifts and books to take away with them for further enjoyment. For children, the Little Shop offers a world of fascination and delight. Lifelike dinosaurs, educational kits, and an assortment of rubber creatures add to their memorable visit to the Museum. The Little Shop participated in this year's Childrens' Book Festival, which played host to numerous publishers and gave children the opportunity to meet their favourite authors.

Another special event was the Charles Gallencamp autographing party for his book *Maya: The Riddle and Rediscovery of a Lost Civilization*. It was highlighted by the ROM Shops' selection of Maya gifts and created enthusiasm and interest during the exhibition *Maya: Treasures of an Ancient Civilization*. The exhibition *The Precious Legacy: Judaic Treasures from the Czechoslovak State Collections* also attracted thousands who delighted in the distinctive display of unique treasures in the featured corner of the ROM Shop.

And this past year, for the first time, the ROM Shops' Operations Corporate Accounts Department approached corporations in the private sector with an offer of Christmas cards based on the ROM collections.

SECURITY DEPARTMENT

Janet Banks, Head

The year's activities in the Security Department have been dominated by an emphasis on prevention as the objective of security measures, rather than the characteristic reactionary approach of the past. The current Security Program of the Royal Ontario Museum is a series of operational measures established and implemented to protect the institution, its property, its employees, and its visitors.

SECURITY OF PROPERTY New galleries introduced a physical change within the building, which necessitated a complete revision of the closing procedures at the end of the day. A more detailed and lengthy search of the building now ensures that all areas of the Museum open to the public are cleared systematically.

An emphasis has been placed on in-house installation and maintenance of physical security systems to minimize the Museum's dependency on outside alarm companies and service personnel. The success of the program must be attributed to the excellent efforts of the security officers in consistently monitoring all physical equipment and reporting problems that may occur on a daily basis. Of equal importance is the daily follow-up provided by the security supervisors to ensure that problems are

corrected as soon as possible. The third element of the program contributing to its success rate was the appointment of a security coordinator, whose primary responsibility is the continual administration of the entire Physical Security Program. The security industry expressed an interest in this unique approach to physical security and provided the opportunity for the head of the department to address the subject at a seminar in Atlantic City sponsored by the American Society for Industrial Security.

Recognizing the need to attempt to "design out" security problems during the planning stages of each project and venture, the Security Department worked closely with Exhibit Design Services on gallery development and provided as much input as possible regarding potential problems in new galleries. The new gallery The Greeks and the Etruscans has a security system that was specifically designed to meet the security needs of the artifacts on display.

SECURITY OF PERSONNEL This category of security also includes safety, and there were several developments throughout the year as we attempted to upgrade the safety standards in the Museum. Although safety is everyone's responsibility, specifically it has become the responsibility of the security administrator, for first aid kits, first aid training, and general follow-up on security officers' reports of safety hazards found during daily patrols. An emergency number has been established in the Security Control Room for the express purpose of ensuring prompt response to all medical emergencies. One hundred and forty staff members were trained in first aid procedures—training made possible through a subsidy from the Workers' Compensation Board. Fire extinguisher training was also made available to sixty staff members and was the first of several planned sessions on the use of fire equipment.

One of the most important activities in the department was the introduction of a five-day comprehensive Security Officer Training Program and the development of a Security Officer Training Manual. Over a course of ten weeks, six officers were removed from the schedule each week to attend training sessions, which were presented by the security coordinator. The introduction of established patrol techniques, report writing instruction, and detailed explanation of the Life Safety System present in the Museum allowed the security officers a greater understanding of all aspects of their job function.

The Security Department continued to streamline its operation in such areas as the lost and found system, key control, parking control, crowd control, alarm response procedures, and security at the Weston Road storage site. Several successful apprehensions of intruders were the result of quick, responsible thinking on the part of security personnel, and there has been a general improvement in the response rate and the effectiveness of the department in dealing with medical emergencies.

Auditors' Report

To the Trustees of
The Royal Ontario Museum:

We have examined the balance sheet of The Royal Ontario Museum as at June 30, 1986 and the statements of financial operations of the Operating Fund, Trust Funds, ROM Galleries Campaign and Renovation and Expansion Project Fund for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests and other procedures as we considered necessary in the circumstances.

In our opinion, these financial statements present fairly the financial position of the Museum as at June 30, 1986 and the results of its operations for the year then ended in accordance with the accounting principles described in note 1 applied on a basis consistent with that of the preceding year.



Chartered Accountants
Toronto, Canada,
August 22, 1986.

The Royal Ontario Museum

(Incorporated by Special Act of the Ontario Legislature as a corporation without share capital)

BALANCE SHEET

JUNE 30, 1986 (with comparative figures as at June 30, 1985)
(in thousands of dollars)

	ASSETS	
	1986	1985
Operating Fund		
Cash	\$ 1,969	\$ 1,653
Short-term investments and accrued interest (at cost, which approximates market value)	27	17
Marketable securities, at cost (quoted market value: 1986—\$416; 1985—\$387)	378	369
Accounts receivable	391	502
Inventories	544	367
Prepaid expenses	172	147
Deferred costs on special exhibitions	<u>19</u>	<u>19</u>
	<u>\$3,481</u>	<u>\$3,074</u>
Trust Funds		
Cash	\$ 235	\$ 114
Short-term investments and accrued interest (at cost, which approximates market value)	53	77
Marketable securities, at cost (quoted market value: 1986—\$2,763; 1985—\$2,711)	2,218	2,248
	<u>\$2,506</u>	<u>\$2,439</u>
Total operating fund and trust funds	<u>\$5,987</u>	<u>\$5,513</u>
ROM Galleries Campaign		
Cash	\$ 332	\$ 514
Marketable securities, at cost (quoted market value: 1986—\$2,707; 1985—\$1,611)	2,653	1,593
Interest receivable	41	35
Other	3	13
	<u>\$3,029</u>	<u>\$2,155</u>
Renovation and Expansion Project Fund		
Cash	<u>\$ 315</u>	<u>\$ 7</u>
On behalf of the Board:		

Edwin A. Goodman, Trustee

J. J. Garwood, Trustee

(See accompanying notes)

LIABILITIES AND FUND EQUITIES

	<u>1986</u>	<u>1985</u>
Operating Fund		
Accounts payable and accrued liabilities	\$1,487	\$1,611
Deferred operating grants	<u>1,225</u>	<u>1,100</u>
	<u>2,712</u>	<u>2,711</u>
Fund balance (deficit):		
Operations	31	(605)
Restricted (note 4)	<u>738</u>	<u>968</u>
	<u>769</u>	<u>363</u>
	<u>\$3,481</u>	<u>\$3,074</u>
Trust Funds		
Accounts payable and accrued liabilities	\$ 3	\$ 44
Fund balance (note 4)	<u>2,503</u>	<u>2,395</u>
	<u>\$2,506</u>	<u>\$2,439</u>
Total operating fund and trust funds	<u>\$5,987</u>	<u>\$5,513</u>
ROM Galleries Campaign		
Accounts payable	\$ 314	\$ 241
Campaign balance	<u>2,715</u>	<u>1,914</u>
	<u>\$3,029</u>	<u>\$2,155</u>
Renovation and Expansion Project Fund		
Accounts payable	\$ 68	\$ 7
Fund balance	<u>247</u>	<u>7</u>
	<u>\$ 315</u>	<u>\$ 7</u>

(See accompanying notes)

STATEMENT OF FINANCIAL OPERATIONS

Operating Fund

YEAR ENDED JUNE 30, 1986

(with comparative figures for the year ended June 30, 1985)
(in thousands of dollars)

	<u>Operations</u>	<u>Restricted</u>	<u>1986</u>	<u>1985</u>
			<u>Total</u>	<u>Total</u>
Revenues:				(restated— see note 8)
Grants—				
Province of Ontario grants—Operating	\$16,652		\$16,652	\$15,776
—Other	246	\$ 190	436	1,473
National Museum of Canada grant	176	66	242	216
Museum generated—				
Admission fees—General	770		770	661
—Planetarium	500		500	427
—Special exhibitions	323		323	169
Professional services (note 3(b))	372	450	822	839
Exhibition fees				147
Cafeteria income	131		131	110
Investment income	110	70	180	193
Donations (note 1(c))		467	467	262
Other revenues	78	3	81	74
Museum services net income (note 3(a))				
Gift shop	93		93	8
Membership	101		101	47
Museum programs	86		86	93
Publications	30		30	13
Total revenues	<u>19,668</u>	<u>1,246</u>	<u>20,914</u>	<u>20,508</u>
Expenditures:				
Curatorial and collections management	6,400	722	7,122	6,553
Building and security	4,494		4,494	4,117
General and administration	2,739	29	2,768	2,860
Gallery and exhibit design	1,253		1,253	1,191
Education services and non-revenue public programs	1,017		1,017	923
Temporary and special exhibitions	867		867	1,281
Marketing and public relations	853		853	866
Planetarium	747		747	695
Outreach services	560	34	594	594
Artifacts and specimens (note 1(c))		528	528	293
Library	374		374	344
Total expenditures	<u>19,304</u>	<u>1,313</u>	<u>20,617</u>	<u>19,717</u>
Excess (deficiency) of revenues over expenditures	364	(67)	297	791
Transfers between funds (note 2)	272	(163)	109	
Fund balance (deficit), beginning of year	(605)	968	363	(428)
Fund balance, end of year	<u>\$ 31</u>	<u>\$ 738</u>	<u>\$ 769</u>	<u>\$ 363</u>

(See accompanying notes)

STATEMENT OF FINANCIAL OPERATIONS

Trust Funds

YEAR ENDED JUNE 30, 1986

(with comparative figures for the year ended June 30, 1985)
(in thousands of dollars)

	<u>1986</u>	<u>1985</u>
Revenues:		
Bequests and donations	\$ 47	\$ 217
Investment income	348	272
Other	16	7
Transfer to ROM Galleries Campaign		(35)
Total revenues	<u>411</u>	<u>461</u>
Expenditures:		
In accordance with the Trusts	<u>303</u>	<u>468</u>
Excess (deficiency) of revenues over expenditures	108	(7)
Fund balance, beginning of year	<u>2,395</u>	<u>2,402</u>
Fund balance, end of year	<u>\$2,503</u>	<u>\$2,395</u>

The trust funds at June 30, 1986 consist of the following:

Brocklebank Estate Fund
 Colin Gordon Fund
 The Far Eastern Endowment Fund
 T. F. McIlwraith Memorial Fund
 R. S. McLaughlin Planetarium Endowment Fund
 Murphy Foundation Fund
 Sigmund Samuel Fund
 Textile Endowment Fund
 O. D. Vaughan Fund
 The Veronica Gervers Memorial Research Fund
 Garfield Weston Charitable Fund
 M. J. Willis Memorial Fund

(See accompanying notes)

STATEMENT OF FINANCIAL OPERATIONS

ROM Galleries Campaign

YEAR ENDED JUNE 30, 1986
 (with comparative figures for the year ended June 30, 1985)
 (in thousands of dollars)

	Cumulative balance June 30, 1985	Receipts and expenditures during the year	Cumulative balance June 30, 1986
Revenues:			
Province of Ontario grant	\$4,500	\$2,000	\$ 6,500
Bequests and donations	2,476	1,634	4,110
National Museum of Canada grant		166	166
Other grants		23	23
Run for the ROM	269	172	441
Interest	271	257	528
	<u>7,516</u>	<u>4,252</u>	<u>11,768</u>
Expenditures:			
Gallery development	5,176	3,046	8,222
Campaign	<u>461</u>	<u>511</u>	<u>972</u>
	<u>5,637</u>	<u>3,557</u>	<u>9,194</u>
Excess of revenues over expenditures	1,879	695	2,574
Transfers between funds (note 2)	<u>35</u>	<u>106</u>	<u>141</u>
Campaign balance	<u>\$1,914</u>	<u>\$ 801</u>	<u>\$ 2,715</u>

(See accompanying notes)

STATEMENT OF FINANCIAL OPERATIONS

Renovation and Expansion Project Fund

(Including gallery development expenditures to June 30, 1983)

YEAR ENDED JUNE 30, 1986

(with comparative figures for the year ended June 30, 1985)
(in thousands of dollars)

	Cumulative balance June 30, 1985	Receipts and expenditures during the year	Cumulative balance June 30, 1986
Revenues:			
Bequests and donations	\$ 9,768	\$ 28	\$ 9,796
Province of Ontario grants (note 6)	20,750		20,750
Province of Ontario grant in lieu of Federal assistance	11,000		11,000
Wintario	10,338		10,338
Special Wintario grant for handicapped facilities	418		418
Chinese Exhibition grant	150		150
Municipality of Metropolitan Toronto	4,225	475	4,700
National Museum of Canada grant	182		182
Revenues from special events (net)	107		107
Members' Volunteer Committee	680	5	685
Run for the ROM	84		84
Interest	<u>1,450</u>	<u>15</u>	<u>1,465</u>
Campaign costs	<u>59,152</u>	<u>523</u>	<u>59,675</u>
	<u>(696)</u>		<u>(696)</u>
	<u>58,456</u>	<u>523</u>	<u>58,979</u>
Expenditures:			
Building	54,704	68	54,772
Gallery development	<u>5,172</u>		<u>5,172</u>
	<u>59,876</u>	<u>68</u>	<u>59,944</u>
Excess (deficiency) of revenues over expenditures	(1,420)	455	(965)
Transfers between funds (note 2)	<u>1,427</u>	<u>(215)</u>	<u>1,212</u>
Fund balance	<u>\$ 7</u>	<u>\$240</u>	<u>\$ 247</u>

(See accompanying notes)

NOTES TO FINANCIAL STATEMENTS

JUNE 30, 1986

1. Summary of accounting policies

The financial statements of The Royal Ontario Museum have been prepared by management in accordance with accounting policies generally followed by similar organizations. The following summary of these accounting policies is set forth to facilitate the understanding of these financial statements.

(a) Fund accounting—

In order to ensure observance of limitations and restrictions placed on the use of resources available to the Museum, the accounts of the Museum are maintained in accordance with the principles of fund accounting. Accordingly, resources for various purposes are classified for accounting and reporting purposes into funds that are held in accordance with the objectives specified by the donors or in accordance with directives issued by the Board of Trustees. Transfers between funds are made when it is considered appropriate by the Board of Trustees. For financial reporting purposes, the accounts have been classified into four groupings as follows:

(i) Operating Fund—The Operating Fund includes the ordinary day-to-day operating transactions of the Museum, special exhibitions and certain amounts received by the Museum or designated by the Board of Trustees to be restricted to certain expenditures of an operating nature. Special exhibitions are those involving special expenditures for which a separate admission fee is charged or apportioned. Temporary exhibitions are those involving special expenditures for which a separate admission fee is not charged or apportioned. Costs of exhibitions are deferred until the exhibitions are opened to the public and then are charged to operations over the period of the exhibition.

The restricted funds include the following:

(a) Grants—

Funds received from various governments and private agencies to finance specific research projects.

(b) Board restricted—

Expendable funds for general or special purposes which have been set aside in accordance with directives issued by the Board of Trustees from time to time. Revenues earned from certain auxiliary activities are also included as directed by the Board. In addition, certain specified donations and investment income from non-restricted funds from donors are included in this category.

(c) Departmental reserves—

Funds received from cross-appointment teaching and other activities of staff in the curatorial and curatorial service departments to finance specific expenditures by the departments.

Reference is made to note 4 for details of these accounts.

(ii) Trust Funds—These include amounts received and amounts expended whose use is restricted in accordance with objectives as specified by the donors.

Reference is made to note 4 for details of these accounts.

(iii) ROM Galleries Campaign—These include amounts received from the Campaign and expenditures incurred to complete the design and installation of exhibits in all of the Museum's gallery spaces. The accounts of the Royal Ontario Museum Development Trust are included with those of the ROM Galleries Campaign.

(iv) Renovation and Expansion Project Fund—These include amounts received and expended that relate to the Museum's project of renovations to, and expansion of, its building and initial phases of gallery development.

(b) Basis of recording revenues and expenditures—

Donations, bequests and capital campaign grants are recorded when received. Other revenues are recorded when earned. Expenditures are recorded when materials are used or services rendered.

(c) Inventories—

Inventories, which consist mainly of publications, book and gift shop items for resale, and supplies, are stated at the lower of cost and net realizable value.

(d) Marketable securities—

Investments are recorded in the accounts at cost. The gain or loss on the sale of securities is based on the average carrying value of the securities sold. Interest income is recorded on the accrual basis as earned.

(e) Fixed assets—

The land, buildings, collections and contents, are each carried in the accounts at a nominal value of \$1. Construction costs and other fixed asset additions are written off. Accordingly, no depreciation is recorded in the accounts.

Artifacts and specimens which are acquired by gift during the year are included in the Operating Fund statement of financial operations as donation revenue at their estimated appraisal values (1986—\$406 thousand; 1985—\$220 thousand). The cost, or appraised value for gifts, of artifacts and specimens acquired during the year is expensed.

2. Fund transfers

During the 1986 fiscal year, with Board approval, the following fund transfers were made to properly allocate revenues and expenditures.

Fund	Transfers between funds to (from)		Net transfer
			(in thousands of dollars)
Operating—			
Operations	\$109	\$163	\$272
Restricted		(163)	(163)
ROM Galleries			
Campaign	(109)	\$215	106
Renovation and			
Expansion Project		(215)	(215)

The net transfer is disclosed in the applicable statement of Financial Operations. The purpose of the transfer to funds was as follows:

Operations — \$109 thousand was transferred from the ROM Galleries Campaign to cover partially the net cost of special exhibitions affecting the campaign.

— \$163 thousand was transferred from Restricted Funds as a result of reclassifying certain funds as operation.

ROM Galleries

Campaign — \$215 thousand of revenue was reallocated from the Renovation and Expansion Project Fund.

3. Museum services

(a) Certain revenue producing operations of the Museum are presented on a net basis on the Operating Fund statement of financial operations since their revenues and

4. Restricted funds and trust funds

A summary of the changes in the various restricted and trust account fund balances for fiscal 1986 is as follows:

	June 30, 1985	Revenues	Expenditures	Transfers (note 2)	June 30, 1986
		(in thousands of dollars)			
<i>Restricted funds</i>					
Grants	\$ 39	\$ 367	\$ 420	\$ (14)	
Board	605	112	151	\$(158)	408
Departmental reserves	<u>324</u>	<u>767</u>	<u>742</u>	<u>(5)</u>	<u>344</u>
	<u>\$ 968</u>	<u>\$1,246</u>	<u>\$1,313</u>	<u>\$(163)</u>	<u>\$ 738</u>
<i>Trust funds</i>					
Capital	\$1,542	\$ 55			\$1,597
Unexpended income	<u>853</u>	<u>356</u>	<u>\$ 303</u>		<u>906</u>
	<u>\$2,395</u>	<u>\$ 411</u>	<u>\$ 303</u>		<u>\$2,503</u>

5. ROM Galleries Campaign

The objective of the ROM Galleries Campaign is to ensure the completion of the design and installation of exhibits in all of the Museum's gallery spaces. The campaign commenced active solicitation of donations in May 1984 and has a target of \$22 million, the amount estimated to cover the planned installation of exhibits. An amount of \$12 million is to be raised from the private sector combined with a matching grant of \$10 million from the Province of Ontario, of which \$6.5 million has been received.

At June 30, 1986 \$4.6 million has been received from the private sector excluding interest. In addition, pledges and commitments of approximately \$4.2 million for future donations have been received.

6. Renovation and Expansion Project Fund

The Museum issued \$3.6 million of debentures to the Ontario Universities Capital Aid Corporation for a portion of the funds received from the Province of Ontario. The debentures were not recorded as a liability in the accounts

expenditures are directly related. The gross revenues and expenditures of these operations are as follows:

	Revenues	Expenditures	Net income
	(in thousands of dollars)		
<i>Year ended June 30, 1986</i>			
Gift shop	\$1,155	\$1,062	\$ 93
Membership	772	671	101
Museum programs	488	402	86
Publications	128	98	30
<i>Year ended June 30, 1985</i>			
Gift shop	\$ 900	\$ 892	\$ 8
Membership	675	628	47
Museum programs	375	282	93
Publications	141	128	13

(b) Professional services provided by the Museum employees of \$372 thousand (1985—\$556 thousand) with respect to the design and installation of galleries has been included in revenues of the Operating Fund and in expenditures of the ROM Galleries Campaign.

because payments of the debenture principal and interest were being made on behalf of the Museum by the Ministry of Citizenship and Culture of the Province of Ontario. In accordance with the Capital Aid Corporation Repeal Act; 1985, the Treasurer of Ontario forgave the loan during the year ended June 30, 1986.

7. Pension plan

The Museum has established the Museum Pension Trust to cover its employees and pensioners. An actuarial valuation of the Plan prepared by the Museum's actuary indicated that the plan had no unfunded liability as at July 1, 1985.

8. Changes in financial statement presentation

Changes in presentation have been made in the financial statements. The comparative figures for 1985 have been reclassified to conform with the presentation adopted in 1986.

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ART AND ARCHAEOLOGY

Canadiana Department

Allodi, Mrs Mary, associate curator
Baum, Ms Carol, technician
de Pencier, Mrs Honor, curatorial assistant
Heimbecker, Mrs Patricia, word-processing
clerk
Holmes, Miss Janet, curatorial assistant
Pratt, Mrs Betty, technician
Smith, Mrs Karen, departmental assistant
Webster, Mr Donald B., curator in charge

Egyptian Department

Gromow, Mrs Annette, departmental
assistant
Grzymski, Dr Krzysztof, assistant curator
Hollett, Mr Alan, technician
Millet, Dr N. B., curator in charge
Shaw, Ms Roberta, curatorial assistant

Department of Ethnology

Brownstone, Mr Aaron, curatorial assistant
Fuchs, Dr Helmuth, curator
Grant, Ms Valerie, technician
Hayes, Ms Mary, technician
Johnston, Mr Basil, lecturer
Kilgour, Mrs Helen, departmental assistant
Lister, Mr Kenneth, curatorial assistant
McDonald, Dr James, assistant curator
Nicks, Dr Trudy, associate curator in charge
Rogers, Dr Edward, curator

European Department

Cselenyi, Mr Ladislav, associate curator in
charge
Kaellgren, Mr Peter, curatorial fellow
Keeble, Mr K. Corey, associate curator
Kritzer, Ms Wendy, technician
Lowther-Munroe, Mrs Torrie, technician
Martin, Mrs Cynthia, departmental assistant

Musselwhite, Mr Brian, curatorial assistant

Far Eastern Department

Dohrenwend, Dr Doris, associate curator
Hayes, Mrs Elizabeth, academic assistant
Howard, Mr Jack, associate librarian in charge
Hsü, Dr James, associate curator in charge
Irwin, Mrs Sara, technician
Lo, Mr Shyh-chang, library technician
Parker, Ms Jeannie, technician
Proctor, Mrs Patty, curatorial fellow
Stephen, Mrs Barbara, curator
Tsang, Dr Ka Bo, curatorial assistant
Wrangham, Miss Susan, department secretary
Wylie, Mr Hugh, curatorial assistant

Greek and Roman Department

Boroskie, Mr Wilfred, technician
Cooper, Mrs Marcia, department secretary
Denis, Mr Paul, curatorial assistant
Easson, Mrs Alison, assistant curator
Hayes, Dr John, curator
Leipen, Mrs Neda, curator in charge
Rix, Mr Wayne, technician

Department of New World Archaeology

Daniels, Miss Peta, technician
Hustiu, Mr Emil, artist
Jhirad, Mrs Naomi, department secretary
Kapches, Dr Mima, assistant curator
MacLaughlin, Ms Anne, technician
Pendergast, Dr David M., curator
Storck, Dr Peter L., curator in charge

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Bernaus, Miss Sandra, data entry operator
Cselenyi, Mrs Judith, technician
Ferguson, Mrs Greta, departmental assistant
Holford, Mrs Mary, assistant curator
Hood, Ms Adrienne, curatorial fellow
Mackie, Miss Louise W., curator in charge
Michel, Miss Carol, data entry operator
Rosar Cruikshank, Mrs Kris, technician
Schmedding, Dr Brigitta, associate curator
Sheng, Ms Angela, curatorial fellow

West Asian Department

Ciuk, Mr Krzysztof, curatorial assistant
Dornfeld, Mr Mark, curatorial assistant
Friedman, Ms Imogene, research assistant
Gilbert, Mrs Carole, technician
Golombek, Dr Lisa, curator
Hart, Mrs Bardy, departmental assistant
Henrickson, Dr Robert C., assistant curator
Keall, Dr Edward, curator
Levine, Dr Louis D., curator in charge
Pratt, Mr William, technician

SCIENCES

Department of Botany

Dickinson, Dr Timothy, assistant curator
McAndrews, Dr J. H., curator in charge
Metsger, Ms Deborah, curatorial assistant
Ross, Mrs Jeanette, department secretary
Siddiqi, Mrs Darakhshan, technician

Department of Entomology

Darling, Dr D. Christopher, assistant curator
Hubley, Mr Bradley, technician
Jaagumagi, Mr Rein, curatorial assistant

Pasch, Ms Susan, departmental assistant

Pickles, Miss Margaret L., technician
Schefter, Ms Patricia W., curatorial assistant
Wiggins, Dr Glenn B., curator in charge
Zichmanis, Ms Zile, artist

Department of Ichthyology and Herpetology

Burridge-Smith, Ms Mary, curatorial assistant
Casselman, Mrs Lois, bibliography specialist
Crossman, Dr Edwin J., curator
Holm, Mr Erling, curatorial assistant
Horkey, Ms Cynthia, departmental assistant
Lebeau, Mr Bernard, research assistant
MacCulloch, Mr Ross, curatorial assistant
Murphy, Dr Robert W., assistant curator
Rouse, Mrs Margaret, technician
Rutland, Miss Catherine, clerk/typist
Winterbottom, Dr Richard, curator in charge

Department of Invertebrate Palaeontology

Burke, Miss Joan, departmental assistant
Collins, Dr Desmond, curator
Fenton, Mr Peter, technician
Millar-Campbell, Mrs Cynthia, technician
Rudkin, Mr David, curatorial assistant
von Bitter, Dr Peter H., curator in charge
Waddington, Mrs Janet, curatorial assistant

Department of Invertebrate Zoology

Byers, Ms Sheila, curatorial assistant
Calder, Dr Dale R., associate curator in charge
Carson, Mrs Renate, curatorial assistant
Coates, Ms Kathryn, curatorial fellow
Mahler, Ms Maureen, technician
Ruddell, Barbarann, department secretary

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Borack, Mr James, technician
Eger, Dr Judith, assistant curator in charge
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Lavender, Ms Susan, department secretary
Lim, Mr Burton, curatorial assistant
Lortie, Miss Liliane, technician
Pasitschniak-Arts, Mrs Maria, technician
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Taylor, Dr Mark E., associate curator
Woodward, Ms Susan, curatorial assistant

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Bushell, Mrs Sandra, cataloguer
Chalmers, Miss Mary Anne, departmental
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Corfu, Dr Fernando, OGS geochronologist
Coutinho, Miss Margaret, secretary
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Krogh, Dr Thomas, curator
Lumbers, Dr S. B., curator in charge
Machado-Fernandes, Dr Nuno, postdoctoral
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Mandarino, Dr Joseph, curator
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Nelson, Mrs Gloria, clerk/typist
Nicklin, Mr Ian, geology research technician
O'Hanley, Dr D. S., postdoctoral fellow
Ottaway, Ms Terri, technician
Peat, Mrs Cynthia, technician
Podstawskeyj, Mr Bohdan, electronics
technician

Ramik, Mr Robert, technician
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Baker, Dr Allan, curator in charge
Barlow, Dr Jon, curator
Dick, Mr James, curatorial assistant
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Ferguson, Mr Lloyston, technician
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James, Dr Ross, associate curator
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Murphy, Mr Glenn, technician
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Kurkits, Miss Tiina, cataloguer
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Seymour, Kevin, curatorial assistant
Zimmermann, Mr Rudolf, machinist

CURATORIAL SERVICE DEPARTMENTS

Collections Management
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Friedman, Mr Gary, assistant to the coordinator
Hanna, Cecilia, data entry clerk
Moore, Miss Marili, technician
Yamamoto, Mr Tosh, coordinator

Computer Systems Coordinator
Wilburn, Mr Gene

Conservation

Anthony, Ms Anneliese, department secretary
Cowan, Ms Janet, paper conservator
Dziadowiec, Mrs Ewa, ceramics conservator
Fenn, Ms Julia, ethnographic conservator
Krasuski, Mrs Izabella, textile conservator
McEachern, Ms Cara, documentation assistant
McKay, Ms Diane, paintings conservator
Pawlick, Mr George, ceramics, stone, glass conservator
Pletsch, Miss Joan, assistant conservator
Reeves, Miss Cara, assistant conservator
Richardson, Mrs Susan, documentation officer
Stock, Miss Susan, metals conservator
Tokarek, Mr Raymond, furniture, wooden artifacts conservator
Toogood, Mr Christopher, metals conservator
Webb, Ms Marianne, decorative arts conservator
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Goodwin, Ms Charlotte, library technician
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Hick, Ms Sharon, associate librarian
Matthews, Julia, head librarian
Ramjass, Mrs Champa, library technician
Rittersporn, Miss Judy, library technician
Storey, Mr Peter, assistant librarian
Todd, Ms Dorothea, library technician

Trunks, Mrs Pansy, library technician

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Lloyd, Mr Mostyn, preparator
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Davis, Mrs Mary, receptionist
Frampton, Mrs Georgette, administrative coordinator
Freeman, Mrs Ruth, coordinator, Discovery Gallery
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Gonzalez, Ms Justa, scheduler
Jamieson, Mr Arthur, teacher
Jenkins, Mrs Marilyn, teacher
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Lesychyn, Ms Luba, continuing education assistant
Miles, Mr Ronald, head
Rousseau, Ms Elaine, manager, creative arts programs
Zibergs, Mr Janis, teacher

McLaughlin Planetarium

Bray, Mr Donald, manager, planetarium operations
Clark, Mr Timothy, music producer
Clarke, Dr Thomas R., head
Dahl, Ms Trudy, receptionist
Davenport, Mrs Jonna, advance booking clerk
Edwards-Davies, Mrs Judy, department secretary
Giacomel, Miss Emanuela, guide
Gomes, Mr Carlos, planetarium technician
Hansen, Mr Troy, assistant manager
Ireland, Mr William, graphic artist
Jen, Mr Calvin, ticket seller
Jessop, Mr Frederick, technical supervisor
Kenny, Mr John, senior producer
Kistritz, Mr Lothar, planetarium technician
Mariotti, Mrs Lucy, head guide
McGregor, Mr Ian, producer
Moleiro, Mr Joseph, planetarium technician
Puccini, Mr John, technician (a-v)
Rossi, Mrs Tina, guide

Sasaki, Mr Chris, photographer
Strzalkowski, Mrs Martha, producer
Wujec, Mr Tom, producer

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Hawken, Mrs Jill, editor
Hawrysh, Lorna, assistant production coordinator
Ibronyi, Ms Barbara, editor
Kirk, Mrs Luisa, graphic artist
Morin, Virginia, graphic artist
O'Brien, Ms Lynne, advertising and promotion coordinator

Porter, Mr Hugh, production coordinator
Shaul, Ms Sandra, executive editor, *Rotunda*
Terziano, Miss Mary, editorial coordinator
Zaman, Miss Zeenat, department secretary

OPERATIONS

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Hull, Diane, development coordinator
Knight, Joanna, development campaign assistant
Milne, Deborah, administrative assistant
Reed, Carol, office supervisor
Settino, Albert, special projects assistant

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Ahmad, Mrs Nasreen, accounts payable clerk
Baker, Mr William, shipper/receiver
Bush, Mr Rob, purchasing officer
Dutton, Miss Marjorie, accounting projects clerk
Graesser, Mr William, head
Green, Mrs Linda, computer operator
Hambley, Mrs Jackie, supervisor, computer services
Hicks, Mrs Lois, accounts payable supervisor
King, Mrs Mary, payroll clerk
Lang, Miss Jane, secretary
Maynard, Mrs Constance, assistant cashier
Moniz, Mrs Franca, head cashier
Mowder, Mrs Janice, financial analyst
Phaure, Mrs Lorraine, senior accounts payable clerk
Sullivan, Mr Brian, assistant storekeeper
Sutton, Mrs Debbie, accounts receivable clerk
Tam, Mr Thomas, manager, financial reporting
Tsui, Mrs Kitty, accounts payable clerk
Wood, Ms Christine, payroll supervisor

Exhibit Design Services

Barnett, Mr Robert, project manager
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Boyle, Mr Brian, photographer
Buerschaper, Mr Peter, supervisor, art services
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Campbell, Mr Andrew, carpenter
Cesta, Mr Walter, draftsperson
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Collins, Ms Marianne, artist
Cook, Mr Hilary, workshop foreman
De Clara, Miss Deirdre, photographic clerk/secretary
Dyer, Mrs Jill, silkscreen technician
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Farley, Ms Catherine, project coordinator
Garvin, Mr David, display maintenance technician
Gibson, Mr Jeffrey, taxidermy technician
Gibson, Ms Lori, secretary
Godin, Mr Bernard, display maintenance technician
Grant, Ms Georgina, exhibit programmer
Guenther, Miss Georgia, artist
Harty, Mr Dwayne, artist
Hockley, Mr Kevin, taxidermist
Holder, Mr Marshall, carpenter
Jackson, Mr Art, exhibit designer
Johnson, Ms Rita, exhibit programmer
Kennedy, Mr William, exhibit designer
Kulezycky, Ms Oksana, graphic designer
Lahey, Mr Richard, exhibit programmer
Lockett, Mrs Christine, exhibit programmer
Love-Symonds, Mr John, artist
Mallette, Mr Gerry, draftsperson

Martinovich, Mr Paul, exhibit programmer
McColl, Mr Allan, photographer
McFarlane, Mr Paul, display maintenance technician
McLerie, Mr Edward, carpenter
Misterowicz, Ms Irene, draftsperson
Moore, Mr Tim, coordinator, special projects
Munro, Ms Leslie, exhibit designer
Nagy, Ms Susan, graphic designer
Odum, Mr Anker, artist
Pankowski, Ms Kathryn, exhibit programmer
Patten, Ms Leslie, assistant to the head
Peters, Mr Michael, exhibit designer
Peverley, Mr Melvyn, display maintenance technician
Peynado, Mr Frank, painter
Render, Mr Lorne E., head
Robertson, Mr William, photographer
Routley, Mr William, display maintenance technician
Sanzo, Mr Gene, draftsperson
Siegrist, Mr Eric, graphic designer
Smith, Ms Gwen, exhibit programmer
Solowich, Ms Teresa, department secretary
Spencer, Mr Hugh, exhibit programmer
Spencer, Mr Steven, exhibit programmer
Ventura, Ms Susan, display maintenance foreman
Walker, Mrs Eileen, exhibit programmer
Walker, Ms Marilyn, assistant head
Walsh, Mr Robert, display maintenance technician
Webster, Miss Kristine, artist
Wisner, Miss Rike, signage technician
Zylberstein, Mr Peter, artist

Exhibitions

Drusian, Ms Loredana, exhibitions assistant
Welch, Ms Margo, manager

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Collins, Ms Lynda, benefits and pension coordinator
Gregory, Mrs Barbara, department secretary
Roberts, Mrs Brenda, personnel assistant
Watson, Ms Jane, recruiting coordinator

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Benedicto, Mr Felicito, engineer
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Chow, Mr Joseph, engineer
Dowhan, Mr Peter, service worker
Duarte, Mr John, service worker
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Fernandez, Mrs Maria, service worker
Forestell, Mr James J., head
Frietas, Mrs Maria Teresa, service worker
Galati, Mr Antonio, senior service worker
Galati, Mr Fortunato, service worker
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Leamen, Mr Arthur, electrician
Leonard, Mr Jason, mail clerk/messenger
Martinos, Mr Terry, senior service worker
Matos, Mrs Julieta, senior service worker
McArthur, Mr Brian, service worker

Melo, Mr Jose, service worker
Mendes, Mrs Isabel, service worker
Moreira, Mr Alex, service worker
Nasato, Mrs Andreana, service worker
Persaud, Mr Cecil, maintenance superintendent
Shim, Mrs Donna, service worker
Solimine, Mr Bernardo, service worker
Stefanovski, Mr Steve, service worker
Thomson, Mr James, engineer
Viola, Mr Alex, maintenance mechanic
Wong, Mr Kent, engineer
Zabella, Mr Anthony, maintenance mechanic

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Cameron, Ms Lora, sales assistant
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Elfassy, Ms Rina, bookkeeping clerk
Ferguson, Ms Lise, sales assistant
Fifi, Ms Suzanne, buyer
Gasmann, Miss Kris, sales assistant
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Staples, Ms Jane, sales assistant
Stepovy, Sophia, head
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Anderson, Mr George, security officer
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Banks, Janet, head
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Beaulieu, Ms Francis, security officer
Beltrano, Mr Frank, security officer
Blake, Mr Lynval, security officer
Bonnor, Mr Michael, security officer
Broden, Miss Margo, security officer
Burritt, Mr Frank, security officer
Carenza, Mr Steve, security officer
Carson, Mr Jamie, security officer
Chopp, Mr Michael, security officer
Chow, Mr Roger, security officer
Cioffi, Mr Thomas, security officer
Collelo, Mr Alex, security officer
Cortes, Mr Santiago, security officer
Cummings, Mr Neville, security officer
de Mintich, Mr John, security officer
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Ens, Mr John, security officer
Field, Mr David, security officer
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Gunter, Mr Sheldon, security officer
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Harrison, Mr Anthony, security officer
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Weissbart, Mr Josef, security officer
Wong, Mr Joseph, security officer
Wredenhagen, Mr Eric, security officer
Young, Mr Douglas, security officer



A runner handing off the baton during the fifth annual RUN for the ROM 24 Hour Relay—the Royal Ontario Museum's major public fund-raising event. (Photo: bds studios.)

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Typesetting by Alpha Graphics Limited
Printed and bound in Canada at The Bryant Press

